

WO02061087

Publication Title:

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

Abstract:

The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

Data supplied from the esp@cenet database - <http://ep.espacenet.com>

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
8 August 2002 (08.08.2002)

PCT

(10) International Publication Number
WO 02/061087 A2

- (51) International Patent Classification⁷: **C12N 15/12**,
C07K 14/705, 16/28, G01N 33/53 [US/US]; 411 West Prospect Street, Seattle, WA 98119 (US).
- (21) International Application Number: PCT/US01/50107 (74) Agents: **KING, Joshua** et al.; Graybeal Jackson Haley LLP, Suite 350, 155 - 108th Avenue Northeast, Bellevue, WA 98004-5901 (US).
- (22) International Filing Date:
19 December 2001 (19.12.2001) (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PH, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (25) Filing Language: English
- (26) Publication Language: English
- (30) Priority Data:
60/257,144 19 December 2000 (19.12.2000) US
- (63) Related by continuation (CON) or continuation-in-part (CIP) to earlier application:
US 60/257,144 (CIP)
Filed on 19 December 2000 (19.12.2000) (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).
- (71) Applicant (*for all designated States except US*): **LIFESPAN BIOSCIENCES, INC.** [US/US]; 2401 Fourth Avenue, Suite 900, Seattle, WA 98121 (US).
- (72) Inventors; and
- (75) Inventors/Applicants (*for US only*): **BURMER, Glenna, C.** [US/US]; 7516-55th Place Northeast, Seattle, WA 98115 (US). **ROUSH, Christine, L.** [US/US]; 5301 Eight Avenue Northeast, Seattle, WA 98105 (US). **BROWN, Joseph, P.**
- Published:**
— *without international search report and to be republished upon receipt of that report*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS (GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH ANTIGENIC PEPTIDES

(57) Abstract: The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known antibodies.

WO 02/061087 A2

ANTIGENIC PEPTIDES, SUCH AS FOR G PROTEIN-COUPLED RECEPTORS
(GPCRS), ANTIBODIES THERETO, AND SYSTEMS FOR IDENTIFYING SUCH
ANTIGENIC PEPTIDES

5 CROSS-REFERENCE TO RELATED APPLICATIONS

[1] The present application claims priority from United States provisional patent application No. 60/257,144, filed December 19, 2000 and presently pending.

TABLE OF CONTENTS

[2] The following is a Table of Contents to assist review of the present application:

10	CROSS-REFERENCE TO RELATED APPLICATIONS
	TABLE OF CONTENTS
	BACKGROUND
	SUMMARY
	BRIEF DESCRIPTION OF THE DRAWING
15	DETAILED DESCRIPTION
	A. INTRODUCTION AND OVERVIEW
	B. DEFINITIONS
	C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRS AND
	OTHER POLYPEPTIDES
20	D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO
	PARTICULAR GPCRS
	ANTIGENIC PEPTIDES GENERALLY:
	EXPRESSION PROFILES BASED ON PROTEINS:
	SCREENING FOR ACTIVITY:
25	PROTEIN PURIFICATION:
	E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
	OTHER SYSTEMS AND ASPECTS, OF THE INVENTION
	1. SYSTEMS AND METHODS FOR SCREENING FOR A
	PARTICULAR GPCR OR ANTIGENIC PEPTIDE
30	SCREENING FOR ANTIGENIC PEPTIDES:
	SCREENING FOR/WITH ANTIGENIC PEPTIDES:
	LIST OF ASSAYS:
	ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):
	IMMUNOFLUORESCENCE ASSAY:
35	BEAD AGGLUTINATION ASSAYS:
	ENZYME IMMUNOASSAYS:
	SANDWICH ASSAY:
	SEQUENTIAL AND SIMULTANEOUS ASSAYS:
	IMMUNOSTICK (DIP-STICK) ASSAYS:
40	IMMUNOCHROMATOGRAPHIC ASSAYS:
	IMMUNOFILTRATION ASSAYS:
	BIOSENSOR ASSAYS:

2. ANTIBODIES

ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE
AND ITS CORRESPONDING GPCR:

ANTIBODIES GENERALLY:

5 ANTI-IDIOTYPIC ANTIBODIES:

a. Antibody Preparation

(i) Polyclonal Antibodies

ANTIBODY PREP - POLYCLONAL:

ANTIBODY PREP - ADJUVANTS (ALL ABS):

10 (ii) Monoclonal Antibodies

ANTIBODY PREP - MONOCLONAL:

MOABS - COMBINATORIAL:

HUMANIZED MOAB:

15 ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES
(ALL ABS):

CHIMERICS:

ANTIBODY LABELING (ALL ABS):

(iii) Humanized And Human Antibodies

HUMANIZED AB GENERALLY:

20 (iv) Antibody Fragments

ANTIBODY FRAGMENTS:

(v) Bispecific Antibodies

BISPECIFIC ANTIBODIES GENERALLY:

ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

25 ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

ANTIBODIES - DIABODIES:

ANTIBODIES - OTHER:

b. Antibody Purification

ANTIBODY PURIFICATION GENERALLY:

30 BEFORE LPHIC:

LPHIC:

POST LPHIC:

c. Some Uses For Antibodies Described Herein

(i) Generally

35 GENERALLY:

ASSAYS:

DIAGNOSTIC USES:

(ii) Assays

ASSAYS:

40 COMPETITIVE BINDING ASSAYS:

(iii) Affinity Purification

AFFINITY PURIFICATION:

(iv) Therapeutics

THERAPEUTIC USES:

45 THERAPEUTIC FORMULATIONS:

THERAPEUTIC FORMULATIONS -STERILE:

THERAPEUTIC ADMINISTRATIONS:

THERAPEUTIC ADMINISTRATIONS – SUSTAINED RELEASE-POLYMERS:
THERAPEUTIC ADMINISTRATIONS – SUSTAINED RELEASE-LIPOSOMES:
THERAPEUTICALLY EFFECTIVE AMOUNT:

5 5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR
 ANTIBODIES THERETO

 DISEASE/CONDITIONS LIST:

EXAMPLES

SEQUENCE LISTING:

CLAIMS

10 ABSTRACT

[3]

BACKGROUND

[4] G protein-coupled receptors (GPCRs) are a large group of proteins that transmit signals across cell membranes. In general terms, GPCRs function somewhat like doorbells.
15 When a molecule outside the cell contacts the GPCR (pushes the doorbell), the GPCR changes its shape and activates "G proteins" inside the cell (similar to the doorbell causing the bell to ring inside the house, which in turn causes people inside to answer the door). GPCRs are like high-security doorbells because each GPCR responds to only one specific kind of signaling molecule (called its "endogenous ligand"), kind of like a high-tech door
20 lock that responds to only one fingerprint. Part of the GPCR is located outside the cell (the "extracellular domain"), part spans the cell's membrane (the "transmembrane domain"), and part is located inside the cell (the "intracellular domain"). Thus, GPCRs are embedded in the outer membrane of a cell and recognize and bind certain signaling molecules that are present in the spaces surrounding the cell. GPCRs are used by cells to keep an eye on the cells' own
25 activity and on the environment. In organisms that have many cells, the cells use GPCRs to talk to each other.

[5] GPCRs are important to the pharmaceutical industry and other industries. For example, many drugs, including some antibody-based drugs, act by binding to specific GPCRs and initiating or inhibiting their intracellular actions, and diagnostics and therapeutics
30 based on GPCRs or on antibodies for GPCRs are becoming increasingly important.

[6] General concepts about GPCRs are discussed in more scientific terms in the following paragraphs.

[7] The GPCR superfamily has at least 250 members, Strader et al., FASEB J., 9:745-754 (1995); Strader et al., Annu. Rev. Biochem., 63:101-32 (1994). GPCRs play important

roles in diverse cellular processes including cell proliferation and differentiation, leukocyte migration in response to inflammation, gene transcription, vision (the rhodopsins), smell (the olfactory receptors), neurotransmission (muscarinic acetylcholine, dopamine, and adrenergic receptors), and hormonal response (luteinizing hormone and thyroid-stimulating hormone receptors). Strader et al., *supra*; U.S. Patent nos. 5,994,097 and 6,063,596. Many important drugs produce their therapeutic actions through their interaction with GPCRs.

[8] Nucleotide and amino acid sequences for many GPCRs have been reported and can be found in public databases such as GenBank and GenPept. Generally speaking, different GPCRs show both structural and sequence similarities. The most conserved domains of GPCRs are the transmembrane domains and the first two cytoplasmic loops. GPCRs range in size from under 400 to over 1000 amino acids. Coughlin, S. R., *Curr. Opin. Cell Biol.* 6:191-197 (1994). They contain seven hydrophobic transmembrane regions that span the cellular membrane and form a bundle of antiparallel alpha helices. McKee K.K., *supra*. The bundle of helices forming the transmembrane regions provide many structural and functional features of the receptor. In most cases, the bundle of helices form a pocket that binds a signaling molecule. However, when the binding site accommodates larger molecules, the extracellular N-terminal segment or one or more of the three extracellular loops participate in binding and in subsequent induction of conformational change in the intracellular portions of the receptor. These helices are joined at their ends by three intracellular and three extracellular loops. GPCRs also contain cysteine disulfide bridges between the second and third extracellular loops, an extracellular N-terminus, and a cytoplasmic or intracellular C-terminus. The N-terminus is often glycosylated, while the C-terminus is generally phosphorylated. A conserved, acidic-Arg-aromatic triplet present in the second cytoplasmic loop may interact with G Proteins. Most GPCRs contain a characteristic consensus pattern. Watson, S. and S. Arkinstall, *The G protein Linked Receptor Facts Book*, Academic Press, San Diego, CA (1994); Bolander, F. F. *Molecular Endocrinology*, Academic Press, San Diego, CA (1994).

[9] Although GPCRs have many features in common, each GPCR has its own unique characteristics as well. GPCRs have varying nucleotide and amino acid sequences, and varying antigenicity. GPCRs bind a diverse array of specific, extracellular signaling molecules (which can also be referred to as "ligands") including peptides, cytokines, hormones, neurotransmitters, growth factors, and specialized stimuli such as photons,

flavorants, and odorants. Identified ligands include, for example, purines, nucleotides (*e.g.*, adenosine, cAMP, NTPs), biogenic amines (*e.g.*, epinephrine, norepinephrine, dopamine, histamine, noradrenaline, serotonin), acetylcholine, peptides (*e.g.*, angiotensin, calcitonin, chemokines, corticotropin releasing factor, galanin, growth hormone releasing hormone, gastric inhibitory peptide, glucagon, neuropeptide Y, neurotensin, opioids, thrombin, secretin, somatostatin, thyrotropin releasing hormone, vasopressin, vasoactive intestinal peptide), lipids and lipid-based compounds (*e.g.*, cannabinoids, platelet activating factor), excitatory and inhibitory amino acids (*e.g.*, glutamate, GABA), ions (*e.g.*, calcium), and toxins.

[10] In general, a GPCR binds only one type of signaling molecule and GPCRs are classified according to subfamilies based upon their selectivity and specificity for a particular ligand. When the ligand for a receptor is not known, the receptor is known as an orphan receptor. The extracellular domain interacts with or binds to certain signaling molecules or ligands located outside of the cell. The binding of a ligand to the extracellular domain alters the conformation of the receptor's intracellular domain causing the activation of a G protein. The G protein then activates or inactivates a separate plasma-membrane-bound enzyme or ion channel. This chain of events alters the concentration of one or more intracellular messengers (second messengers) such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . These, in turn, alter the activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal. Baldwin, J.M., Curr. Opin. Cell Biol. 6:180-190 (1994). The G protein is deactivated by hydrolysis of GTP by GTPase. U.S. Patent Nos. 5,994,097 and 6,063,596.

[11] GPCR mutations, both of the loss-of-function and of the activating variety, have been associated with numerous human diseases, Coughlin, *supra*. For example, retinitis pigmentosa may arise from either loss-of-function or activating mutations in the rhodopsin gene. Somatic activating mutations in the thyrotropin receptor cause hyperfunctioning thyroid adenomas, Parma, J. et al., Nature 365:649-651 (1993). Parma et al. indicate that it may be possible that certain G protein-coupled receptors susceptible to constitutive activation may behave as proto-oncogenes. Interestingly, GPCRs have functional homologues in human cytomegalovirus and herpesvirus, so GPCRs may have been acquired during evolution for viral pathogenesis, Strader et al., FASEB J., 9:745-754 (1995); Arvanitakis et al., Nature, 385:347-350 (1997); Murphy, Annu. Rev. Immunol. 12:593-633 (1994). The

importance of the GPCR superfamily is further highlighted by the recent discoveries that some of its family members, the chemokine receptors CXCR4/Fusin and CCR5, are co-receptors for T cell-tropic and macrophage-tropic HIV virus strains, respectively, Alkhatib et al., Science, 272:1955 (1996); Choe et al., Cell, 85:1135 (1996); Deng et al., Nature, 381:661 (1996); Doranz et al., Cell, 85:1149 (1996); Dragic et al., Nature, 381:667 (1996); Feng et al., Science, 272:872 (1996). It is conceivable that blocking these receptors may prevent infection by the human immunodeficiency (HIV) virus. Other GPCR-related items include regulating cellular metabolism and diagnosing, treating and preventing particular diseases associated with particular GPCRs.

10 [12] One important way to evaluate GPCRs and antibodies for GPCRs as novel drug targets and for other purposes such as diagnostics is through the creation and use of databases. Such databases can provide large amounts of information about genes, proteins, and other biological matter. An excellent example of such a database is the GPCR database created and maintained by LifeSpan BioSciences, Inc., Seattle, Washington, USA, which
15 database is available by subscription to researchers and others needing such information. The information in the databases can, for example, be searched, compared, and analyzed. The compilation of such databases, as well as the searching, comparing, etc., of the databases, can be referred to as the field of "bioinformatics." Investigations largely related to genes, such as the information found from the sequencing of the human genome, can be called "genomics"
20 while similar activities on proteins can be called "proteomics."

[13] There has gone unmet a need for improved systems, compositions, methods, and the like relating to improved antigenicity of peptides from GPCRs and antibodies relating thereto. The present invention provides these and other advantages.

SUMMARY

25 [14] The present invention provides antigenic peptides for GPCRs and antibodies relating thereto, and related systems, methods, compositions, and the like, such as diagnostics and medicaments. Where antibodies against a given GPCR are not known, the present invention provides such antibodies, and preferred antigenic sequences for producing such antibodies. Where antibodies against a given GPCR are known, the present invention
30 provides preferred antigenic peptides for producing antibodies that exhibit improved specificity, affinity or capacity to perform antibody-related actions relative to the known

antibodies. The present invention also provides improved methods of selecting antigenic peptides from any desired protein or polypeptide, as well as antigenic peptides so produced and antibodies against such antigenic peptides.

[15] The antigenic peptides and antibodies herein can be used, for example, to detect the presence or absence of corresponding GPCRs. They can be used to diagnose a variety of diseases and disorders in which GPCRs are involved, such as, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[16] The association of particular GPCRs with particular diseases, disorders or conditions will be apparent to a person of ordinary skill in the art in view of the present application, and thus the association with the antibodies of the present invention to the corresponding diseases, disorders or conditions.

5 [17] Thus, in one aspect the present invention provides isolated antigenic peptides according to any one of SEQ ID NOS. 692-2292. The isolated antigenic peptides also comprise an amino acid sequences that are at least about 90% or 95% identical to such sequences, or be an analog of such sequences, or comprise a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids set forth in any one of such
10 sequences or contain no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any of such sequences. The present invention also provides antibodies, particularly isolated antibody having high specificity and high affinity or avidity for a particular GPCR or other target polypeptide or protein, generated using the antigenic peptides discussed herein.

15 [18] The present invention also provides isolated nucleic acid molecules encoding an antigenic peptide or antibody as described herein. The molecule can encode a naturally occurring human antigenic peptide. In some embodiments, the present invention provides processes for producing an isolated polynucleotide can comprise hybridizing a nucleotide encoding an antigenic peptide as discussed herein to DNA such as genomic DNA under
20 stringent or highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

[19] The present invention also provides kits and assays, such as kits for the detection of antibodies against a particular GPCR or other target polypeptide in a sample comprising: a) an isolated antigenic peptide as discussed herein and derived from the particular GPCR, and
25 b) at least one of a reagent or a device for detecting the antibodies, or comprising: a) an isolated antibody as described herein, and b) at least one of a reagent or a device for detecting the antibody. The assays include detection of a particular GPCR in a sample, comprising: a) providing an isolated antigenic peptide, b) contacting the isolated antigenic peptide corresponding to the particular GPCR with the sample under conditions suitable and for a
30 time sufficient for the antigenic peptide to bind to one or more antibodies specific for the target protein present in the sample, to provide an antibody-bound target protein, and c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the

sample contains the particular GPCR. The assays can further comprise the step of binding the isolated antigenic peptide or the antibody to a solid substrate, and the sample can be an unpurified sample, for example from a human being.

[20] The assay can be selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

10 [21] In other aspects, the present invention provides methods of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence such as a polypeptide or protein wherein the antigenic peptide has a length of about 5 to about 100 amino acids, typically 6 amino acids to about 50 amino acids, and preferably 7 amino acids to about 20 amino acids. The methods comprise: a) searching the candidate polypeptide
15 sequence using a comparison window of the length, and b) selecting against amino acid sequences of the length and having at least 1 to 3 or 4 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids.
20 Preferably, the method comprises selecting against at least 5 to all of the characteristics.

[22] The methods can comprise, independently or in addition, selecting against amino acid sequences of the desired length having at least one of the following characteristics 1) sequences having at least 5 consecutive amino acids that are identical to an alternative amino
25 acid sequence from an alternative polypeptide that can be different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences. The posttranslational modification sites can be phosphorylation or glycosylation sites. The methods can also comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

30 [23] These and other aspects, features, and embodiments are set forth within this application, including the following Detailed Description and attached drawings. The present invention comprises a variety of aspects, features, and embodiments; such multiple aspects,

features, and embodiments can be combined and permuted in any desired manner. In addition, various references are set forth herein, including in the Cross-Reference To Related Applications, that discuss certain compositions, apparatus, methods, or other information; all such references are incorporated herein by reference in their entirety and for all their teachings and disclosures, regardless of where the references may appear in this application.

BRIEF DESCRIPTION OF THE DRAWING

[24] Figure 1 depicts representative examples of the nucleotide and amino acid sequences of the GPCRs for which antigenic peptides are set forth herein, SEQ ID NOS. 1 - 691.

10 [25] Figure 2 depicts amino acid sequences for the antigenic peptides for the GPCRs herein, SEQ ID NOS. 692-2292.

[26] Figure 3 depicts a listing of GPCRS for which commercially available antibodies are putatively available.

DETAILED DESCRIPTION

15 A. INTRODUCTION AND OVERVIEW

[27] Diseases such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases are serious health problems in the modern world. Any improvement in the diagnosis, treatment or other remediation of such diseases is a significant advance for millions of people. The present invention provides methods of identifying and selecting desirable antigenic peptides for GPCRs and other desired target or candidate proteins and polypeptides. The present invention also provides the antigenic peptides themselves, as well as antibodies against the antigenic peptides (and against proteins or polypeptides containing such antigenic peptides), and related diagnostics, antibody-based therapeutics directed to 20 certain diseases and conditions, and other helpful compositions, systems, kits, assays and the like. The compositions, methods, and the like can be useful, for example, as agonists, antagonists, probes, and otherwise as may be desired.

[28] The antigenic peptides have been carefully selected using specific selection criteria and methodologies set forth herein to take advantage of particularly advantageous regions of 30 the GPCRs from which they have been derived to provide unusually specific and

immunogenic antigens. These antigenic peptides are particularly useful for producing highly specific antibodies against the antigenic peptides, which, in turn, also means antibodies that are highly specific for the corresponding GPCRs containing the antigenic peptides. Accordingly, the antigenic peptides of the present invention, and the antibodies produced
5 therefrom, are particularly useful for high specificity, low noise diagnostics and, in the case of the antibodies, for certain antibody-based therapeutics, as well as methods, kits, systems, and the like incorporating or based on such antigenic peptides or antibodies.

[29] The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can
10 selectively detect the corresponding GPCR in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected.

15 [30] The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[31] Figure 1 sets forth the DNA and protein sequences for the GPCRs from which the
20 antigenic peptides of the present invention were derived SEQ ID NOS. 1-691. Figure 2 sets forth the amino acid sequences of exemplary antigenic peptides, SEQ ID NOS. 692-2292. The sequences in Figures 1 and 2 are listed according to SEQ ID NO and LSID, which is an identification number assigned to the given sequence in the LifeSpan Biosciences databases. The sequences in Figure 2 also include an identifier LPID, which is also an identification
25 number assigned to the given sequence in the LifeSpan Biosciences databases. Figure 3 depicts GPCRs for which it has been reported that antibodies are commercially available, SEQ ID NOS. 1, 3, 5, 11, 13, 15, 21, 23, 25, 27, 29, 31, 35, 37, 39, 41, 43, 45, 49, 51, 53, 57, 59, 61, 63, 65, 67, 69, 70, 71, 73, 75, 77, 79, 83, 85, 97, 99, 101, 103, 105, 107, 113, 115, 117, 121, 125, 135, 139, 143, 145, 147, 151, 155, 157, 159, 161, 169, 171, 173, 175, 177,
30 183, 185, 187, 189, 191, 192, 194, 200, 202, 206, 208, 214, 216, 218, 228, 236, 238, 240, 248, 250, 264, 295, 299, 301, 305, 311, 313, 315, 317, 319, 321, 323, 325, 327, 329, 331, 333, 335, 337, 347, 349, 351, 361, 365, 367, 369, 371, 377, 379, 385, 387, 389, 391, 397,

423, 435, 439, 457, 459, 461, 462, 468, 470, 472, 503, 507, 515, 535, 537, 546, 548, 552, 562, 628, 636; Applicants do not represent that any of the antibodies in Figure 3 that such antibodies are actually commercially available nor that they have any significant specificity nor affinity for the GPCRs reported. For GPCRs for which no antigens or antibodies were previously known, the present invention provides valuable antigenic peptides and antibodies (see, e.g., SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.); for GPCRs for which antigens or antibodies are known, the present invention provides improved antigens in the form of antigenic peptides and improved antibodies (see, e.g., SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, which are antigenic peptides derived from GPCRs for which antibodies are reportedly commercially available). The antigenic peptides and antibodies, and uses and assays, etc., related to the antigenic peptides, are discussed further below.

[32] The discussion herein, including the following passages, has been separated by headings for convenience. The disclosure under a given heading is not restricted to that heading. For example, the discussion in the definitions section is a part of the disclosure of the invention, the discussion on antigenic peptides also contains discussion related to probes and diagnostics, and the discussion on antibodies contains discussion related to therapeutic compositions, etc.

B. DEFINITIONS

[33] The following paragraphs provide a non-exhaustive list of definitions of some of the terms and phrases as used herein. All terms used herein, including those specifically described below in this section, are used in accordance with their ordinary meanings unless the context or definition indicates otherwise. Also unless indicated otherwise, except within

the claims, the use of "or" includes "and" and vice-versa. Non-limiting terms are not to be construed as limiting unless expressly stated (for example, "including" means "including without limitation" unless expressly stated otherwise).

[34] The terms set forth in this application are not to be interpreted in the claims as indicating a "means plus function" relationship unless the word "means" is specifically recited in a claim, and are to be interpreted in the claims as indicating a "means plus function" relationship where the word "means" is specifically recited in a claim. Similarly, the terms set forth in this application are not to be interpreted in method or process claims as indicating a "step plus function" relationship unless the word "step" is specifically recited in the claims, and are to be interpreted in the claims as indicating a "step plus function" relationship where the word "step" is specifically recited in a claim.

[35] "Agonist" indicates a substance, such as a molecule or compound, that interacts with a particular GPCR, for example by binding to the GPCR, to activate, increase, or prolong the amount or the duration of the effect of the biological activity or functionality of the GPCR. Agonists include proteins, nucleic acids, carbohydrates, or any other molecules that bind to and positively modulate the effect of the GPCR. Agonists and other modulators of the particular GPCR can be identified using *in vitro* or *in vivo* assays for G protein-coupled receptor expression or G protein-mediated signaling. For example, assays for agonists and other modulators include expressing a particular GPCR in cells or cell membranes, applying putative modulator compounds in the presence or absence of a specific known or putative ligand and then determining the functional effects on the particular GPCR-mediated signaling. Samples or assays comprising a particular GPCR that are treated with a potential agonist or other modulator are compared to control samples without the agonist or other modulator to examine the extent of modulation. Control samples can be assigned a relative activity value for the particular GPCR of 100%. Agonist activity on a particular GPCR is achieved when the G protein-coupled receptor activity value relative to the control is at least about 110%, optionally about 150%, preferably about 200-500%, or about 1000-3000% or higher. Down-modulation (for example by an antagonist) of a particular GPCR is achieved when the particular GPCR activity value relative to the control is at most about 90%, typically about 80%, optionally about 50% or about 25-0% of the 100% value.

[36] "Aggregate," see Complex.

[37] "Algorithm" refers to a detailed sequence of actions to perform to accomplish some task. In computer programming, refers to instructions given to the computer.

[38] "Allele" or "allelic sequence" indicates an alternative form of the gene encoding the GPCR. Alleles may result from at least one mutation in the nucleic acid sequence and may
5 result in altered mRNAs or in polypeptides whose structure or function may or may not be altered. Any given natural or recombinant gene may have none, one, or many allelic forms. Common mutational changes that give rise to alleles are generally ascribed to natural deletions, additions, or substitutions of nucleotides. Each of these types of changes may occur alone or in combination with the others, one or more times in a given sequence.

10 [39] "Altered" nucleic acid sequences encoding the GPCR include those sequences with deletions, insertions, or substitutions of different nucleotides, resulting in a polynucleotide encoding the same GPCR or a polypeptide variant with at least one substantial structural or functional characteristic of the GPCR. Included within this definition are polymorphisms that may or may not be readily detectable using a particular oligonucleotide probe against the
15 polynucleotide encoding the GPCR. "Altered" proteins may contain deletions, insertions, or substitutions of amino acid residues that produce a silent change and result in a functionally equivalent GPCR. Deliberate amino acid substitutions may be made on the basis of similarity in polarity, charge, solubility, hydrophobicity, hydrophilicity, or the amphipathic nature of the residues, as long as the biological or immunological activity of the GPCR is
20 retained. For example, negatively charged amino acids may include aspartic acid and glutamic acid, positively charged amino acids may include lysine and arginine, and amino acids with uncharged polar head groups having similar hydrophilicity values may include leucine, isoleucine, and valine; glycine and alanine; asparagine and glutamine; serine and threonine; and phenylalanine and tyrosine.

25 [40] "Alternative splicing" refers to different ways of cutting and assembling exons to produce mature mRNAs.

[41] "Amino acid" refers generally to any of a class of organic compounds that contains at least one amino group, $-NH_2$, and one carboxyl group, $-COOH$. The alpha-amino acids, $RCH(NH_2)COOH$, are the building blocks from which proteins are typically constructed.
30 Amino acid can also refer to artificial chemical analogues or mimetics of a given amino acid as described, depending on the context.

[42] "Amino acid sequence" refers to a string of amino acids, such as an oligopeptide, peptide, polypeptide, or protein sequence, or a fragment of any of these, including naturally occurring or synthetic molecules and those comprising an artificial chemical analogue or mimetic of a given amino acid. In this context, "biologically active fragments," "biologically functional fragments," "immunogenic fragments," and "antigenic fragments" refer to fragments of the GPCR that are preferably about 15, 25, or 50 or more amino acids in length and that retain a substantial amount of such activity of the GPCR. Where "amino acid sequence" refers to an amino acid sequence of a naturally occurring protein molecule, "amino acid sequence" and like terms are not necessarily limited to the complete native amino acid sequence associated with the recited protein molecule.

[43] "Amplification" indicates the production of additional copies of something, such as a nucleic acid sequence. Amplification can be generally carried out using polymerase chain reaction (PCR) technologies or other technologies such as the cycling probe reaction (CPR) that are well known in the art. *See, e.g.*, Dieffenbach, C. W. and G. S. Dveksler, PCR Primer, a Laboratory Manual, pp.1-5, Cold Spring Harbor Press, Plainview, N.Y. (1995); U.S. Patents Nos. 5,660,988, 5,731,146 and 6,136,533.

[44] "Amplification primers" are oligonucleotides such as natural, analog or artificially created nucleotides that can serve as the basis for the amplification of a selected nucleic acid sequence. They include, for example, both PCR primers and ligase chain reaction oligonucleotides.

[45] "Analog" or "variant" indicates a GPCR or antigenic peptide that has been modified by deletion, addition, modification, or substitution of one or more amino acid residues compared to the wild-type sequence. Analogs encompass allelic and polymorphic variants, and also muteins and fusion proteins that comprise all or a significant part of such GPCR, *e.g.*, covalently linked via side-chain group or terminal residue to a different protein, polypeptide, or moiety (fusion partner). Variants of a particular GPCR protein refer to an amino acid sequence that is altered by one or more amino acids, for example by one or more amino acid substitution, insertion, deletion or modification, or proteins with or without associated native-pattern glycosylation. The variant may have "conservative" changes. Such "conservative" changes generally are well known in the art and readily determinable for a particular GPCR in view of the present application. Conservative changes include, for example, substitutions where a substituted amino acid has similar structural or chemical

properties to the amino acid it replaced (*e.g.*, negatively charged amino acids include aspartic acid and glutamic acid; positively charged amino acids include lysine, arginine, histidine, asparagine, and glutamine; amino acids containing sulfur include methionine and cysteine; polar hydroxy amino acids include serine, threonine, and tyrosine; large hydrophobic amino acids include phenylalanine and tryptophan; small hydrophobic amino acids include alanine, leucine, isoleucine, and valine). A variant may also have "**nonconservative**" changes which means that the replacement amino acid provides some substantial change in the amino sequence.

[46] A variant preferably retains at least about 90% identity, and more preferably at least about 95% identity. Within certain embodiments, such variants contain alterations such that the ability of the variant to induce an immunogenic response is not substantially eliminated; in some embodiments the ability to an immunogenic response is not substantially diminished. Modifications of amino acid residues may include but are not limited to aliphatic esters or amides of the carboxyl terminus or of residues containing carboxyl side chains, O-acyl derivatives of hydroxyl group-containing residues, and N-acyl derivatives of the amino-terminal amino acid or amino-group containing residues, *e.g.*, lysine or arginine. Guidance in determining which and how many amino acid residues may be substituted, inserted, deleted or modified without diminishing immunological or biological activity may be found in view of the present application using any of a variety of methods and computer programs known in the art, for example, DNASTAR software. Properties of a variant may generally be evaluated by assaying the reactivity of the variant with, for example, antibodies as described herein or evaluating a biological activity characteristic of the native protein as described herein or as known in the art in view of the present application. Certain polynucleotide variants are capable of hybridizing under appropriately stringent conditions to a naturally occurring DNA sequence encoding a particular GPCR protein (or a complementary sequence). Such hybridizing nucleic acid sequences are also within the scope of this invention.

[47] "Antagonist" refers to a molecule which interacts with a particular GPCR, for example by binding to the particular GPCR, and prevents, inactivates, decreases or shortens the amount or the duration of the effect of the biological activity of the GPCR. Antagonists include proteins, nucleic acids, carbohydrates, antibodies, or any other molecules that so affect the GPCR. Antagonists can be identified, for example, using appropriate screens

corresponding to those described for agonists above and elsewhere herein or as would be apparent to those skilled in the art in view of the present application.

[48] "Antibody" indicates one type of binding partner, typically encoded by an immunoglobulin gene or immunoglobulin genes, and refers to, for example, intact
5 monoclonal antibodies (including agonist and antagonist antibodies), polyclonal antibodies, phage display antibodies, and multispecific antibodies (*e.g.*, bispecific antibodies) formed, for example, from at least two intact antibodies. Antibody also refers to fragments thereof, which comprise a portion of an intact antibody, generally the antigen-binding or variable region of the intact antibody that are capable of binding the epitopic determinant. Examples
10 of antibody fragments include Fab, Fab', F(ab')₂, and Fv fragments, diabodies, linear antibodies, single-chain antibody molecules, and multispecific antibodies formed from antibody fragments. *See* US Patent No. 6,214,984. Antibody fragments may be synthesized by digestion of an intact antibody or synthesized *de novo* either chemically or utilizing recombinant DNA technology. Antibodies according to the present invention have at least
15 one of adequate specificity, affinity and capacity to perform the activities desired for the antibodies. Antibodies can, for example, be monoclonal, polyclonal, or combinatorial. Antibodies that bind GPCR polypeptides can be prepared using intact polypeptides or using fragments containing small peptides of interest as the immunizing antigen. The polypeptide or oligopeptide used to immunize an animal (*e.g.*, a mouse, a rat, or a rabbit) can be derived
20 from the translation of RNA, or synthesized chemically, and can be conjugated to a carrier protein if desired. Commonly used carriers that are chemically coupled to peptides include bovine serum albumin, thyroglobulin, and keyhole limpet hemocyanin (KLH). The coupled peptide is then used to immunize the animal.

[49] "Antigenic determinant" refers to the antigen recognition site on an antigen (*i.e.*,
25 epitope). Such antigenic determinant may also be immunogenic.

[50] "Antisense" refers to any composition containing a nucleic acid sequence that is complementary to a specific nucleic acid sequence. "Antisense strand" refers to a nucleic acid strand that is complementary to the "sense" strand. Antisense molecules may be produced by any method including transcription or synthesis including synthesis by ligating
30 the gene(s) of interest in a reverse orientation to a desired promoter that permits the synthesis of a complementary strand. Once introduced into a cell, the complementary nucleotides can combine with natural sequences produced by the cell to form duplexes and to block either

transcription or translation. The designation "negative" can refer to the antisense strand, and the designation "positive" can refer to the sense strand.

[51] "Biologically active" or "biologically functional," when referring to an antigenic peptide, indicates that the antigenic peptide induces an immunogenic response specific for the antigenic peptide and thus for the GPCR from which it was obtained. A variant, fragment, etc., of an antigenic peptide is "biologically active" or "biologically functional" if the ability to induce the specific immunogenic response is not substantially diminished. The term "not substantially diminished" means retaining a functionality that is at least about 90% of the functionality of the native antigenic peptide. Appropriate assays designed to evaluate such functionality may be designed based on existing assays known in the art in view of the present application, or on the representative assays provided herein.

[52] "Annotation" refers to the provision of helpful or identifying information about a GPCR or other open reading frame (ORF), such as locus name, key words, and Medline references.

[53] "BLAST" refers to the Basic Local Alignment Search Tool, which is a technique for detecting ungapped sub-sequences that match a given query sequence. BLAST can be used as a preliminary step for detecting ORF boundaries.

[54] "BLASTP" refers to a BLAST program that compares an amino acid query sequence against a protein sequence database.

[55] "BLASTX" refers to a BLAST program that compares the six-frame conceptual translation products of a nucleotide query sequence (both strands) against a protein sequence database. BLASTX can be used to create a sub-database of ORFs which may exist on a contig, and to identify the best match between one of these ORFs and a sequence in an external database.

[56] "Buffer" refers to a component in a solution to provide a buffered solution that resists changes in pH by the action of its acid-base conjugate components.

[57] "CDS" refers to the GenBank DNA sequence entry for coding sequence. A coding sequence is a sub-sequence of a DNA sequence that is surmised to encode a gene. A complete gene coding sequence begins with an "ATG" and ends with a stop codon.

[58] "Clone" in molecular biology refers to a vector carrying an insert DNA sequence.

[59] "Cloning" in molecular biology refers to a recombinant DNA technique used to produce multiple, up to millions or more, copies of a DNA sequence. The DNA sequence is

inserted into a small carrier or vector (*e.g.*, plasmid, bacteriophage, or virus) and inserted into a host cell for amplification or expression.

[60] "**Cluster**" refers to a group of ORFs related to one another by sequence homology. Clusters are generally determined by a specified degree of homology and overlap (*e.g.*, a stringency).

[61] "**Comparison window**" indicates a segment of any one of the number of contiguous positions selected from the group consisting of from 20 to 600, usually about 50 to about 200, more usually about 100 to about 150 in which a sequence may be compared to a reference sequence of the same number of contiguous positions after the two sequences are aligned to enhance sequence similarity. Methods of alignment of sequences for comparison will be readily apparent to a person of ordinary skill in the art in view of the present application.

[62] "**Complementary**" or "**complementarity**" refers to the natural binding of polynucleotides by base pairing. For example, the sequence "A-G-T" binds to the complementary sequence "T-C-A." Complementarity between two single-stranded molecules may be "partial," such that only some of the nucleic acids bind, or it may be "complete," such that all of the nucleotides of at least one of the single-stranded molecules binds to corresponding nucleotides of the other single-stranded molecule. The degree of complementarity between nucleic acid strands has significant effects on the efficiency and strength of the hybridization between the nucleic acid strands. This can be of particular importance in amplification reactions, which can depend upon binding between nucleic acids strands, and in the design and use of peptide nucleic acid (PNA) molecules.

[63] "**Complex**," or "**aggregate**," indicates a dimer or multimer formed between at least two proteins or other macromolecules, for example a GPCR and its ligand.

[64] "**Composition**" indicates a combination of multiple substances into a mixture.

[65] "**Composition comprising a given amino acid sequence**" refers broadly to any composition containing the given amino acid sequence. The composition may comprise a dry formulation, an aqueous solution, or a sterile composition.

[66] "**Consensus sequence**" refers to the sequence that reflects the most common choice of base or amino acid at each position from a series of related DNA, RNA, or protein sequences. Areas of particularly good agreement often represent conserved functional domains. The generation of consensus sequences has typically been subjected to intensive mathematical analysis.

[67] "Conservative changes" to an amino acid sequence, see Analog.

[68] "Deletion" refers to a change in the amino acid or nucleotide sequence that results in the absence of one or more amino acid residues or nucleotides.

[69] "Derivative" refers to chemical modification of an antigenic peptide, or of an antibody specific for and created from the antigenic peptide. A derivative peptide can be modified, for example, by glycosylation or pegylation.

[70] "Diabodies" refers to one type of antibody comprising small antibody fragments with two antigen-binding sites, which fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) on the same polypeptide chain (V_H - V_L).
10 By using a linker that is too short to allow pairing between the two domains on the same chain, the domains pair with the complementary domains of another chain and create two antigen-binding sites. Diabodies are described, for example, in EP 404,097; WO 93/11161; and Holliger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993).

[71] "Database" refers to a structured format for organizing and maintaining information or data, a collection of data records, in a computer-readable form that can be rapidly and easily retrieved. A database is typically stored in a computer-readable memory. Records may comprise web pages, graphics, audio files, text files, or links. Records may or may not be further broken into fields. Database records are usually indexed and come with a search interface to find records of interest.

20 [72] "E-value" refers to a result of a FASTA analysis. The number indicates the probability that a match between two sequences is due to random chance.

[73] "Expression vector" is a specialized vector constructed so that the gene inserted in the vector can be expressed in the cytoplasm of a host cell.

[74] "FASTA" refers to a modular set of sequence comparison programs used to
25 compare an amino acid or DNA sequence against all entries in a sequence database. FASTA was written by Professor William Pearson of the University of Virginia Department of Biochemistry. The program uses the rapid sequence algorithm described by Lipman and Pearson (1988) and the Smith-Waterman sequence alignment protocol. FASTA performs a protein to protein comparison.

30 [75] "FASTX" refers to a module of the FASTA protocol used to define optimal ORF boundaries while searching for genes. FASTX uses a nucleotide to protein sequence comparison.

[76] "Fragment," see Portion.

[77] "GenBank" refers to a family of public databases comprising nucleic acid and amino acid sequence information, including the GenPept bacterial peptide database.

[78] "Gene" refers to the basic unit of heredity that carries the genetic information for a given RNA or protein molecule. A gene is composed of a contiguous stretch of DNA and contains a coding region that is flanked on each end by regions that are transcribed but not translated. A gene is a segment of DNA involved in producing a biologically active or biologically functional polypeptide chain.

[79] "Heterologous" indicates a nucleic acid that comprises two or more subsequences that are not found in the same relationship to each other in nature. For instance, the nucleic acid is typically recombinantly produced, having two or more sequences from unrelated genes arranged to make a new functional nucleic acid, *e.g.*, a promoter from one source and a coding region from another source. Similarly, a heterologous protein indicates that the protein comprises two or more subsequences that are not found in the same relationship to each other in nature (*e.g.*, a fusion protein).

[80] "Hit Threshold" refers to a pre-set E-value or P-value for evaluating sequence matches. For example, this value can be set at $1e-6$ for finding genes; and at $1e-15$ for clustering genes.

[81] "Homology" refers to a degree of complementarity. There may be partial homology or complete homology. The word "identity" may substitute for the word "homology." A partially complementary sequence that at least partially, and substantially, inhibits a corresponding sequence from hybridizing to a target nucleic acid is referred to as "substantially homologous." The inhibition of hybridization of the completely complementary sequence to the target sequence may be examined using a hybridization assay (*e.g.*, Southern or Northern blot, *in situ* hybridization, solution hybridization) under conditions of reduced stringency. A substantially homologous sequence or hybridization probe will compete for and inhibit the binding of a completely homologous sequence to the target sequence under stringency conditions that inhibit non-specific binding but permit specific binding. The absence of non-specific binding may be tested by the use of a second target sequence which lacks even a partial degree of complementarity (*e.g.*, less than about 30% homology or identity). In the absence of non-specific binding, the substantially

homologous sequence or probe will not hybridize to the second, non-complementary target sequence.

[82] **"Humanized antibody"** refers to antibody molecules in which the amino acid sequence in the non-antigen-binding regions has been altered so that the antibody more closely resembles a human antibody, and still retains its original binding ability. Typically, humanized antibodies are human immunoglobulins (recipient antibody) in which residues from a complementarity-determining region (CDR) of the recipient are replaced by residues from a CDR of a non-human species (donor antibody) such as mouse, rat or rabbit having the desired specificity, affinity, and capacity. In some instances, Fv framework residues of the human immunoglobulin are replaced by corresponding non-human residues. Furthermore, humanized antibodies may comprise residues that are found neither in the recipient antibody nor in the imported CDR or framework sequences. These modifications are typically made to further refine and optimize antibody performance. In general, the humanized antibody will comprise substantially all of at least one, and typically two, variable domains, in which all or substantially all of the CDR regions correspond to those of a non-human immunoglobulin and all or substantially all of the framework (FR) regions are those of a human immunoglobulin sequence. The humanized antibody optimally also will comprise at least a portion of an immunoglobulin constant region (Fc), typically that of a human immunoglobulin. For further details see, *e.g.*, Jones et al., *Nature*, 321:522-525 (1986); Reichmann et al., *Nature*, 332:323-329 (1988); and, Presta, *Curr. Op. Struct. Biol.*, 2:593-596 (1992).

[83] **"Identity,"** see Homology.

[84] **"Immunocytochemistry"** refers to the use of immunologic methods, including a specific antibody, to study cell constituents.

25 [85] **"Immunohistochemistry"** refers to the use of immunologic methods, including a specific antibody, to study specific antigens in tissue slices.

[86] **"Immunolocalization"** refers to the use of immunologic methods, including a specific antibody, to locate molecules or structures within cells or tissues.

[87] **"Immunologically active"** refers to the capability of a natural, recombinant, or synthetic GPCR, or any immunogenic fragment thereof, to induce a specific immune response in appropriate animals or cells and to bind with specific antibodies. A polypeptide is "immunologically active" if it is recognized by (*e.g.*, specifically bound by) a B-cell or T-

cell surface antigen receptor. Immunological activity may generally be assessed using well known techniques, such as those summarized in Paul, Fundamental Immunology, 3rd ed., 243-247, Raven Press (1993) and references cited therein. Such techniques include screening polypeptides derived from the native polypeptide for the ability to react with antigen-specific antisera or T-cell lines or clones, which may be prepared in view of the present application using well known techniques. Preferably, an immunologically active portion of a GPCR protein reacts with such antisera or T-cells at a level that is not substantially lower than the reactivity of the full-length polypeptide (*e.g.*, in an ELISA or T-cell reactivity assay). Such screens may generally be performed using methods well known to those of ordinary skill in the art in view of the present application, such as those described in Harlow and Lane, Antibodies: A Laboratory Manual, Cold Spring Harbor Press (1988). B-cell and T-cell epitopes may also be predicted via computer analysis.

[88] "Immune response" refers to any of the body's immunologic reactions to an antigen such as antibody formation, cellular immunity, hypersensitivity, or immunological tolerance.

[89] "Insertion" and "addition" when referring to a change in a nucleotide or amino sequence indicate the addition of one or more nucleotides or amino acid residues, respectively, to the sequence.

[90] "*In situ* hybridization" refers to use of a nucleic acid probe, typically a DNA or RNA probe, to detect the presence of a DNA or RNA sequence in target cells such as cloned bacterial cells, cultured eukaryotic cells, or tissue samples. *In situ* hybridization can also be used for locating genes on chromosomes. The process can be performed by preparing a microscope slide with cells in metaphase of mitosis, then treating slide with a weak base to denature the DNA. Next, pour radioactively labeled probe onto the slide under hybridizing conditions, expose the slide to a photographic emulsion for a suitable period such as a few days or weeks, then develop the emulsion.

[91] "Isoform" refers to different forms of a protein that may be produced from different genes or from the same gene by alternative RNA splicing.

[92] "Isolated" generally means that the material is removed from its original environment (*e.g.*, the natural environment if it is naturally occurring).

[93] "Library" refers physically to a pool of nucleic acid fragments that has been propagated in a cloning vector. Library can also refer to an electronic collection of genomic

or proteomic sequence data, including raw sequences, contigs, ORFs and loci from a specific organism.

[94] "Ligand" refers to an ion or molecule that binds with another molecule, such as a GPCR, to form a macromolecule such as a receptor-ligand complex. An "endogenous
5 ligand" refers to a native ligand that binds to the receptor of the GPCR and modulates biological activity or functionality of the GPCR in its native environment. A "specific ligand" is a ligand able to bind to a particular GPCR and modulate the biological activity or functionality of the particular GPCR; an endogenous ligand is one example of a specific ligand.

10 [95] "Microarray" refers to an array of distinct nucleic acid or amino acid molecules arrayed on a substrate, such as paper, nylon or any other type of membrane, filter, chip, glass slide, or any other suitable solid support. Microarrays can also refer to tissue microarrays, composed of small tissue pieces arranged on a slide. U.S. Pat. No. 5,143,854 and PCT Patent Publication Nos. WO 90/15070 and 92/10092.

15 [96] "Mimetic" refers to a molecule, *e.g.*, a peptide or non-peptide agent, such as a small molecule, that is able to perform the same biological activity as a certain biologically active agent. For example, some mimetics are molecules comprising the same biological function or activity as the particular GPCR. The structure of the mimetic can be developed from knowledge of the structure of the particular GPCR or portions thereof. For appropriate
20 mimetics, the mimetic is able to effect some or all of the actions of a given antigenic peptide or antibodies against the antigenic peptide. Such mimetics can be made, in view of the present application, using techniques well known in the art, *see, e.g.*, U.S. Patent Nos. 6,197,752; 6,093,697; 6,207,643; 5,849,323, and can be included in the various processes, methods, and systems, etc., described herein, such as databases, binding partner assays,
25 probes, medicaments, and therapeutics.

[97] "Modulate" refers to controllably changing the activity of a substance or other item, such as the biological activity of a GPCR, antigenic peptide or corresponding antibody. For example, modulation may cause an increase or a decrease in protein activity, binding characteristics, or other biological, functional, or immunological properties of the GPCR.

30 [98] "Monoclonal antibody" refers to an antibody obtained from a population of substantially homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present

in minor amounts. Monoclonal antibodies include "chimeric" antibodies (immunoglobulins) in which a portion of the heavy or light chain is identical with or homologous to corresponding sequences in antibodies derived from a particular species or belonging to a particular antibody class or subclass, while the remainder of the chain(s) is identical with or homologous to corresponding sequences in antibodies derived from another species or belonging to another antibody class or subclass, as well as fragments of such antibodies, so long as they exhibit the desired biological activity. U.S. Pat. No. 4,816,567; Morrison et al., P.N.A.S. USA, 81:6851-6855 (1984). Monoclonal antibodies are highly specific, being directed against a single antigenic site. As a matter of distinction, polyclonal antibody preparations typically include different antibodies directed against different determinants (epitopes) of a target antigen whereas each monoclonal antibody is directed against a single determinant on the antigen. Monoclonal antibodies can be synthesized by hybridoma culture, uncontaminated by other immunoglobulins. For example, the monoclonal antibodies to be used in accordance with the present invention may be made by the hybridoma method first described by Kohler and Milstein, Nature, 256:495 (1975), or may be made by recombinant DNA methods. See, e.g., U.S. Pat. No. 4,816,567. Monoclonal antibodies may also be isolated from phage antibody libraries using the techniques described in Clackson et al., Nature, 352:624-628 (1991), and Marks et al., J. Mol. Biol., 222:581-597 (1991), for example. The modifier "monoclonal" indicates the character of the antibody as being obtained from a substantially homogeneous population of antibodies, and is not to be construed as requiring production of the antibody by any particular method.

[99] "Nonconservative" changes to an amino acid sequence, see Analog.

[100] "Northern blotting" or "Northern analysis" refers to a method used to detect specific RNA sequences. For example, the process can be performed by electrophoresing RNA in a denaturing agarose gel, transferring the gel onto a membrane, and hybridizing with a labeled RNA or DNA probe.

[101] "Nucleic acid sequence" refers to a polymer comprising a string of "nucleic acids" such as an oligonucleotide, or a polynucleotide or fragment thereof. The nucleic acid sequence can be from DNA or RNA of genomic or synthetic origin, may be single-stranded or double-stranded, and may represent the sense or the antisense strand. A nucleic acid sequence can also be a PNA or a DNA-like or RNA-like material. Unless stated otherwise,

the term encompasses nucleic acids containing known analogues or mimetics of natural nucleotides that have similar binding properties as the reference nucleic acid.

[102] **"Oligonucleotide"** refers to a nucleic acid sequence, generally between 6 nucleotides to 60 nucleotides, preferably about 15 to 30 nucleotides, and most preferably about 20 to 25 nucleotides, that can, for example, be used in PCR or other nucleic acid amplification or in a hybridization assay or microarray. "Oligonucleotide" includes "amplimers," "primers," "oligomers," and "probes," as these terms are commonly defined in the art. Oligonucleotides can be chemically synthesized. Such synthetic oligonucleotides may have no 5' phosphate and if so will not ligate to another oligonucleotide without adding a phosphate, typically by using an ATP in the presence of a kinase. A synthetic oligonucleotide will ligate to a fragment that has not been dephosphorylated.

[103] **"Operably linked"** or **"operably connected"** indicates that one element of an apparatus, system, or method, etc., is connected to another element of the apparatus, system, or method, etc., such that the two elements are able to perform their intended purposes. For example, when a promoter is linked to a polynucleotide to allow transcription of the polynucleotide, it is "operably linked" to the polynucleotide.

[104] **"Orphan receptor"** refers to a receptor for which the endogenous ligand or other ligands inducing biological activity are not known.

[105] **"PCR"** or **"polymerase chain reaction"** refers to an *in vitro* method that uses oligonucleotide primers, enzymes, and a series of repetitive temperature cycles to generate millions of copies of a nucleic acid, typically DNA, from an original specimen of a specific DNA sequence, which specimen may be present only in a trace amount.

[106] **"Plasmids"** refers to extrachromosomal genetic elements composed of DNA or RNA found in both eukaryotic and prokaryotic cells that can propagate themselves autonomously in cells. Plasmids can be used as carriers or vectors to clone DNA molecules. They are designated by a lower case p preceded or followed by capital letters or numbers. The starting plasmids herein are either commercially available, publicly available on an unrestricted basis, or can be constructed from available plasmids in accord with published procedures. In addition, equivalent plasmids to those described are known in the art and will be apparent to the ordinarily skilled artisan in view of the present application.

[107] **"Polynucleotide encoding a polypeptide"** indicates a polynucleotide that includes only the coding sequence for the polypeptide as well as polynucleotides that include additional coding or non-coding sequence.

[108] **"Portion"** or **"fragment"** with regard to a protein (as in "a portion of a given protein") refers to parts of that protein, a subsequence of the complete amino acid sequence of the receptor containing at least about 8, usually at least about 12, more typically at least about 20, and commonly at least about 30 or more contiguous amino acid residues, up to the entire amino acid sequence minus one amino acid. Thus, a protein "comprising at least a portion of the amino acid sequence of SEQ ID NO:XX" or a protein "comprising at least a portion of the amino acid sequence of a particular GPCR" encompasses the full-length protein and fragments thereof. A portion or fragment of a nucleic acid refers to nucleic acid sequences that are greater than about 12 nucleotides in length, and typically at least about 60 or 100 nucleotides, generally at least about 1000 nucleotides, or at least about 10,000 nucleotides in length, up to the entire nucleic acid sequence minus one nucleic acid.

[109] **"P-value"** is a statistical term used to indicate the probability that an event is due to random chance. When used in reference to a result of BLAST searches, the number indicates the probability that a match between two sequences is due to random chance.

[110] **"Receptor"** refers to a molecular structure, typically within a cell or on a cell surface, that selectively binds a specific substance (a ligand) and a specific physiologic effect that accompanies the binding. GPCRs are a type of cell-surface receptor, which means a protein in, on, or traversing the cell membrane (in the case of GPCRs, traversing the cell membrane) that recognizes and binds to specific molecules in the surrounding fluid. The binding to a receptor may serve to transport molecules into the cell's interior or to signal the cell to respond in some way.

[111] **"Recombinant"** refers to both a method of production and a structure. Some recombinant nucleic acids and proteins are made by the use of recombinant DNA techniques that involve human intervention, either in manipulation or selection. Others are made by fusing two fragments that are not naturally contiguous to each other. Engineered vectors are encompassed, as well as nucleic acids comprising sequences derived using any synthetic oligonucleotide process.

[112] **"Sample"** is used in its usual broad sense. For example, a biological sample suspected of containing nucleic acids encoding the GPCR, or fragments thereof, or the GPCR

itself, may comprise a bodily fluid; an extract from a cell, chromosome, organelle, or membrane from a cell; a cell; genomic DNA, RNA, or cDNA (in solution or bound to a solid support); a tissue; a tissue print, and the like. Biological sample refers to samples from a healthy individual as well as to samples from a subject suspected of having or susceptible to having, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxemic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

[113] "Second messengers" refer to intracellular signaling molecules such as cyclic AMP (cAMP), inositol triphosphate, diacylglycerol, or Ca^{2+} . Second messengers, in turn, alter the

activity of other intracellular proteins such as cAMP-dependent protein kinase and Ca^{2+} /calmodulin-dependent protein kinases, leading to the transduction and amplification of the original extracellular signal.

[114] "Southern blotting" refers to a method for detecting specific DNA sequences via hybridization. For example, a DNA sample can be electrophoresed in a denaturing agarose gel, transferred onto a membrane, and hybridized with a complementary nucleic acid probe. "Southern" when used in reference to a database indicates an electronic analog of the laboratory technique, which analysis can be used to identify libraries in which a given DNA sequence, such as a gene, EST, or ORF is present. The terms "Northern" and "Western" likewise can be used for electronic analogs to the respective laboratory techniques described above.

[115] "Specific binding" or "specifically binding" refers to an interaction between protein or peptide and a certain substance, such as its specific ligand or antibody, and in some cases its agonists or antagonists. The interaction is dependent upon the presence of a particular structure of the protein recognized by the binding molecule (e.g., the antigenic determinant or epitope). For example, if an antibody specifically binds epitope "A," the presence of a polypeptide containing epitope A or the presence of free unlabeled epitope A will reduce the amount of labeled epitope A that binds to the antibody in a reaction containing free labeled epitope A and the antibody. Conversely, the presence of a polypeptide that does not contain epitope A will not reduce the amount of labeled epitope A that binds to the antibody. Highly specific binding indicates that the protein or peptide binds to its particular ligand, antibody, etc., and does not bind in a significant amount to other proteins present in the sample. Typically, a specific or selective reaction will be at least twice the background signal or noise and more typically more than 10 to 100 times the background signal or noise.

[116] "Stringent conditions" refer to conditions that permit hybridization between complementary polynucleotide sequences. Suitably stringent conditions can be defined by, for example, the concentrations of salt or formamide in the prehybridization and hybridization solutions, or by the hybridization temperature. Stringency can be increased by reducing the concentration of salt, increasing the concentration of formamide, or raising the hybridization temperature. Stringent conditions are dependent upon the type of probe as well as the length of the probe and the GC content of the probe. "Stringent conditions" typically

occur within a range from about $T_m - 5^\circ\text{C}$ (5°C below the melting temperature (T_m) of the probe) to about $T_m - 20 - 25^\circ\text{C}$ for a cRNA probe and to about $T_m - 15^\circ\text{C}$ for an oligonucleotide probe. **"Highly stringent conditions"** refers to conditions under which a probe will hybridize to its target sequence, typically in a complex mixture of nucleic acid sequences, but
5 will not substantially hybridize to other sequences. One example of high stringency conditions for a cRNA probe that is 1,000 nucleotides in length and has a GC content of about 60% is about $55 - 65^\circ\text{C}$ in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm DNA. One example of low stringency conditions for the same probe in 50% formamide, 0.1 X SSC, and 200 $\mu\text{g/ml}$ sheared and denatured salmon sperm
10 DNA would be $30 - 35^\circ\text{C}$. **"Very highly stringent conditions"** indicates that there must be complete identity between the sequences. The temperature range corresponding to a particular level of stringency can be narrowed further by calculating the purine to pyrimidine ratio of the nucleic acid of interest and adjusting the temperature accordingly. Variations on and modifications of the above ranges and conditions will be readily appreciated by those of
15 skill in the art in view of the present application. As will be understood by those of skill in the art in view of the present application, the stringency of hybridization can be altered to identify or detect identical or related polynucleotide sequences. One guide for nucleic acid hybridization is Tijssen, Laboratory Techniques in Biochemistry and Molecular Biology-v.24 Hybridization with Nucleic Acid Probes, Part I "Overview of principles of hybridization and
20 the strategy of nucleic acid assays" (New York: Elsevier 1993).

[117] **"Substantially purified"** refers to nucleic acid or amino acid sequences that are removed from their natural environment and are separated from other components from such natural environment, and are at least about 60% free, preferably about 75% or 85% free, and most preferably about 90%, 95% or 99% free from such other components with which they
25 are naturally associated. Substantially purified preferably indicates a substantially homogeneous state and can be in either a dry or aqueous solution or other composition as desired. Purity and homogeneity can be assayed by standard methods, for example on a mass or molar basis, using analytical chemistry techniques such as polyacrylamide gel electrophoresis or high performance liquid chromatography.

[118] "Substitution" when referring to a change in a nucleotide or amino sequence indicates the replacement of one or more nucleotides or amino acids by different nucleotides or amino acids, respectively.

[119] "Variant," see Analog.

5 [120] "Western blotting" or "Western analysis" refers to a method for detecting specific protein sequences. For example, the process can be performed by electrophoresing a protein mixture in a denaturing agarose or acrylamide gel, transferring the mixture onto a membrane, and incubating it with an antibody raised against the protein of interest.

[121] Other terms and phrases are defined in other portions of this application.

10

C. SELECTION OF DESIRED ANTIGENIC PEPTIDES FOR GPCRs AND OTHER POLYPEPTIDES

[122] The present invention provides improved antigenic peptides, for example as set forth in Figure 2, SEQ ID NOS. 692-2292, and improved methods of identifying such
15 antigenic peptides from known or publicly available sequences of polypeptides or proteins, i.e., from a candidate polypeptide sequence. Polypeptide and protein are used in their traditional sense to indicate lengthy amino acid molecules, whereas the antigenic peptide has a length significantly less than the length of the corresponding polypeptide or protein such that the antigenic peptide is capable of providing significantly improved antigenicity relative
20 to the corresponding polypeptide or protein, typically improved specificity, affinity or avidity. The candidate polypeptide can be, for example, a human protein or polypeptide, a naturally occurring protein or polypeptide or a synthetic or recombinant protein or polypeptide.

[123] The antigenic peptides are typically 5 to about 100 amino acids in length, preferably
25 6 to about 50 amino acids, and further preferably 7 to about 20 amino acids. The antigenic peptides include short antigenic amino acid sequences (*i.e.*, peptides comprising only a portion of an antigenic sequence as set forth in Figure 2 or as identified using the methods described herein, plus an insignificant number of additional amino acids at one or both ends, where insignificant indicates that the extra amino acids do not substantially interfere with the
30 antigenicity of the antigenic peptide). Such short antigenic peptides can be identical to at least 5, 6, 7 or more consecutive amino acids of the sequences herein or identified using the methods described herein, or can have one or two (or more, with increasing length)

conservative amino acid substitution for antigenic peptides comprising more than 6 or 7 consecutive amino acids of the sequences herein or identified using the methods described herein. Antigenic peptides and sequences, and related antibodies and assays and the like, are discussed further elsewhere herein with regard to GPCRs, but such discussions applies to all
5 antigenic peptides produced according to the methods herein, including proteins and polypeptides such as kinases, phosphatases and any other desired protein or polypeptide.

[124] The identification or selection methods comprise searching the candidate polypeptide sequence using a comparison window of the desired length, then selecting against or rejecting amino acid sequences of the length and having at least 1 characteristic
10 selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising no charged amino acids. Preferably, at least 5, 7, 8, or all of the characteristics are selected.

15 [125] The identification or selection methods can also comprise selecting against amino acid sequences having at least 5 consecutive amino acids that are identical to an alternative amino acid sequence from an alternative polypeptide, i.e., some polypeptide other than the candidate polypeptide from which the selected antigen was derived, that is different from the candidate polypeptide, posttranslational modification sites, or highly hydrophobic sequences,
20 which indicates sequences adequately hydrophobic to be located in a lipid membrane such as a cellular membrane. The posttranslational modification sites can be phosphorylation or glycosylation sites.

[126] The methods can further comprise performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence. Exemplary BLAST-type and FAST-type
25 analyses are described above, including BLAST, BLASTP, BLASTX, FASTA, and FASTX.

D. GENERAL DISCUSSION OF ANTIGENIC PEPTIDES RELATED TO PARTICULAR GPCRS

[127] ANTIGENIC PEPTIDES GENERALLY:

30 [128] The present invention includes antigenic peptides able to induce specific immunogenic responses, and corresponding binding partners. Such antigenic peptides and

binding partners can be cloned, expressed, isolated, purified, and otherwise obtained or manipulated according to routine methods known in the art in view of the present application.

[129] The present invention further relates to antigenic peptides having an amino acid sequence from a particular GPCR, including analogs, mimetics, fragments, derivatives, and the like of such antigenic peptides. See SEQ ID NOS. 1-2292, Figures 1-3. The antigenic peptides may be recombinant, natural or synthetic. The antigenic peptides include (i) antigenic peptides in which one or more of the amino acid residues are substituted with a conserved or non-conserved amino acid residue (preferably a conserved amino acid residue) and such substituted amino acid residue may or may not be one encoded by the genetic code, (ii) antigenic peptides in which one or more of the amino acid residues includes a substituent group, (iii) antigenic peptides in which the mature polypeptide is complexed (*e.g.*, fused or otherwise bonded) with another compound, such as a compound to increase the half-life of the polypeptide (for example, polyethylene glycol), and (iv) antigenic peptides in which additional amino acids are fused to the antigenic peptide. Preparing and using such analogs, etc., are within the scope of those skilled in the art in view of the present application. The antigenic peptides additionally include antigenic peptides that have at least about 90% identity to the given antigenic peptide, and preferably at least about 95% identity to the antigenic peptide. The antigenic peptides additionally include antigenic peptides that contain at least five, six, seven or more consecutive amino acids that are identical to the given antigenic peptide, as well as antigenic peptides that contain at least six, seven, eight or more consecutive amino acids that are identical to the given antigenic except for one or two conservative changes within this such stretch of amino acids. The antigenic peptides of the present invention can be produced by peptide synthesis.

[130] EXPRESSION PROFILES BASED ON PROTEINS:

[131] An expression profile of a particular GPCR in one or more tissues can be made using antibodies or other binding partners produced using the antigenic peptides herein, then using traditional approaches such as Western blotting, immunohistochemistry analysis, protein array, ligand-binding studies, radioimmunoassay (RIA), and high performance liquid chromatography (HPLC), and immunohistochemistry analysis. H&E staining and other analyses can be used in combination with such immunologically-based analyses.

[132] SCREENING FOR ACTIVITY:

[133] The activity or functionality of an antigenic peptide can be measured using any of a variety of assays known in the art. Similarly, the specificity or affinity of an antibody or other binding partner made using the antigenic peptide can be measured using any of a variety of assays known in the art

5 [134] The activity or functionality of a particular GPCR may be measured using any of a variety of functional assays in which activation of the receptor in question results in an observable change in the level of some second messenger system, including but not limited to adenylyl cyclase, calcium mobilization, arachidonic acid release, ion channel activity, inositol phospholipid hydrolysis, or guanylyl cyclase. Heterologous expression systems utilizing
10 appropriate host cells to express the nucleic acid of the subject invention are used to obtain the desired second messenger coupling. Receptor activity may also be assayed in an oocyte expression system.

[135] **PROTEIN PURIFICATION:**

[136] The antigenic peptides and proteins or polypeptides containing them can be purified
15 by standard methods, including but not limited to salt or alcohol precipitation, preparative disc-gel electrophoresis, isoelectric focusing, high pressure liquid chromatography (HPLC), reversed-phase HPLC, gel filtration, cation and anion exchange, partition chromatography, and countercurrent distribution. Suitable purification methods will be readily apparent to those skilled in the art in view of the present application and are disclosed, *e.g.*, in Guide to
20 Protein Purification, Methods in Enzymology, Vol. 182, M. Deutscher, Ed., Academic Press, New York, NY (1990). Purification steps can be followed as part of carrying out assays for ligand binding activity. Particularly where a particular GPCR is being isolated from a cellular or tissue source, it is preferable to include one or more inhibitors of proteolytic enzymes in the assay system, such as phenylmethylsulfonyl fluoride (PMSF).

25

E. CERTAIN ASSAYS, ANTIBODIES, PROBES, THERAPEUTICS, AND
OTHER SYSTEMS AND ASPECTS, OF THE INVENTION

1. SYSTEMS AND METHODS FOR SCREENING FOR A
PARTICULAR GPCR OR ANTIGENIC PEPTIDE

30 [137] **SCREENING FOR ANTIGENIC PEPTIDES:**

[138] As noted elsewhere herein, the present invention provides antigenic peptides and antibodies that are specific for a particular GPCR. The invention also provides systems and

methods for using or detecting such peptides, and antibodies against such peptides or corresponding GPCRs in a sample. The assays are based on the detection of the antigenic peptides, typically as they are displayed by the particular GPCR, or the detection of antibodies produced against the particular antigenic peptides and corresponding GPCRs.

5 [139] **SCREENING FOR/WITH ANTIGENIC PEPTIDES:**

[140] Many assays are characterized by the ability of antigenic peptides for a particular GPCR to be bound by antibodies against them, and the ability of antibodies produced against such antigenic peptides to bind to antigens or epitopes of the particular GPCR in a sample. Some exemplary assays are described below and elsewhere herein.

10 [141] **LIST OF ASSAYS:**

[142] A variety of assays can detect antibodies that bind specifically to the desired protein in or from a sample, or detect a desired protein bound to one or more antibodies in or from the sample. Exemplary assays are described in detail in *Antibodies: A Laboratory Manual*, Harlow and Lane (eds.), Cold Spring Harbor Laboratory Press (1988). Representative
15 examples of such assays include: countercurrent immuno-electrophoresis (CIEP), radioimmunoassays, radioimmunoprecipitations, enzyme-linked immunosorbent assays (ELISA), dot blot assays, inhibition or competition assays, sandwich assays, immunostick (dip-stick) assays, simultaneous assays, immunochromatographic assays, immunofiltration assays, latex bead agglutination assays, immunofluorescent assays, biosensor assays, and
20 low-light detection assays. *See* U.S. Pat. Nos. 4,376,110 and 4,486,530; WO 94/25597; WO/25598.

[143] **ENZYME-LINKED IMMUNOSORBENT ASSAYS (ELISA):**

[144] One assay for the detection of a particular GPCR is a sandwich assay such as an enzyme-linked immunosorbent assay (ELISA). In one preferred embodiment, the ELISA
25 comprises the following steps: (1) coating the particular GPCR antigenic peptide onto a solid phase, (2) incubating a sample suspected of containing anti-particular GPCR antibodies with the antigenic peptide coated onto the solid phase under conditions that allow the formation of an antigen-antibody complex, (3) adding an anti-antibody (such as anti-IgG) conjugated with a label to be captured by the resulting antigen-antibody complex bound to the solid phase,
30 and (4) measuring the captured label and determining therefrom whether the sample contains anti-particular GPCR antibodies.

[145] **IMMUNOFLUORESCENCE ASSAY:**

[146] A fluorescent antibody test (FA-test) uses a fluorescently labeled antibody able to bind to one of the proteins of the invention. For detection, visual determinations are made by a technician using fluorescence microscopy, yielding a qualitative result. In one embodiment, this assay is used for the examination of tissue samples or histological sections.

5 [147] **BEAD AGGLUTINATION ASSAYS:**

[148] In latex bead agglutination assays, antibodies to one or more of the antigenic peptides of the present invention are conjugated to latex beads. The antibodies conjugated to the latex beads are then contacted with a sample under conditions permitting the antibodies to bind to desired proteins in the sample, if any. The results are then read visually, yielding a
10 qualitative result. In some embodiments, as with certain other assays, this format can be used in the field for on-site testing.

[149] **ENZYME IMMUNOASSAYS:**

[150] Enzyme immunoassays (EIA) include a number of different assays that can use the antibodies described in the present application. For example, a heterogeneous indirect EIA
15 uses a solid phase coupled with an antibody of the invention and an affinity purified, anti-IgG immunoglobulin preparation. The solid phase can be a polystyrene microtiter plate. The antibodies and immunoglobulin preparation are then contacted with the sample under conditions permitting antibody binding, which conditions are well known in the art. The results of such an assay can be read visually or using a device such as a spectrophotometer,
20 such as an ELISA plate reader, to yield a quantitative result. An alternative solid phase EIA format includes plastic-coated ferrous metal beads able to be moved during the procedures of the assay by means of a magnet. Yet another alternative is a low-light detection immunoassay format. In this highly sensitive format, the light emission produced by appropriately labeled bound antibodies are quantified automatically. Preferably, the reaction
25 is performed using microtiter plates.

[151] In an alternative embodiment, a radioactive tracer is substituted for the enzyme-mediated detection in an EIA to produce a radioimmunoassay (RIA).

[152] **SANDWICH ASSAY:**

[153] In a capture-antibody sandwich enzyme assay, the desired protein is bound between
30 an antibody attached to a solid phase, preferably a polystyrene microtiter plate, and a labeled antibody. The results can be measured, for example, using a spectrophotometer, such as an ELISA plate reader.

[154] SEQUENTIAL AND SIMULTANEOUS ASSAYS:

[155] In a sequential assay format, reagents are allowed to incubate with the capture antibody in a stepwise fashion. The test sample is first incubated with the capture antibody. Following a wash step, incubation with the labeled antibody occurs. In a simultaneous assay, the two incubation periods described in the sequential assay are combined. This eliminates one incubation period plus a wash step.

[156] IMMUNOSTICK (DIP-STICK) ASSAYS:

[157] A dipstick/immunostick format is essentially an immunoassay using a polystyrene paddle or dipstick instead of a polystyrene microtiter plate as the solid phase. Reagents are the same and the format can either be simultaneous or sequential.

[158] IMMUNOCHROMATOGRAPHIC ASSAYS:

[159] In a chromatographic strip test format, a capture antibody and a labeled antibody are dried onto a chromatographic strip, which typically comprises nitrocellulose or high porosity nylon bonded to cellulose acetate. The capture antibody is usually spray dried as a line at one end of the strip. At this end, there is an absorbent material that is in contact with the strip. At the other end of the strip, the labeled antibody is deposited in a manner that prevents it from being absorbed onto the membrane. Usually, the label attached to the antibody is a latex bead or colloidal gold. The assay may be initiated by applying the sample immediately in front of the labeled antibody.

[160] IMMUNOFILTRATION ASSAYS:

[161] Immunofiltration/immunoconcentration formats combine a large solid-phase surface with directional flow of sample/reagents, which concentrates and accelerates the binding of antigen to antibody. In an exemplary format, the test sample is preincubated with a labeled antibody, and then applied to a solid phase such as fiber filters, nitrocellulose membranes, or the like. The solid phase can also be precoated with latex or glass beads coated with capture antibody. Detection of analyte is the same as that in a standard immunoassay. The flow of sample/reagents can be modulated by either vacuum or the wicking action of an underlying absorbent material.

[162] BIOSENSOR ASSAYS:

[163] A threshold biosensor assay is a sensitive, instrumented assay amenable to screening large numbers of samples at low cost. In one embodiment, such an assay comprises the use of light-addressable potentiometric sensors wherein the reaction involves

the detection of a pH change due to binding of the desired protein by capture antibodies, bridging antibodies, and urease-conjugated antibodies. Upon binding, a pH change is effected that is measurable by translation into electrical potential (μ volts). The assay typically occurs in a very small reaction volume, and is very sensitive; the reported detection
5 limit of the assay is 1,000 molecules of urease per minute.

2. ANTIBODIES

[164] ANTIBODIES GENERATED AGAINST A PARTICULAR ANTIGENIC PEPTIDE AND ITS CORRESPONDING GPCR:

10 **[165]** Highly specific, high affinity or antibodies against a particular GPCR or other polypeptide can be generated using the antigenic peptides herein and using antibody generation techniques as described herein or elsewhere. The antibodies produced using the antigenic peptides of the present invention, for example, have a specificity for the corresponding GPCR such that the antibodies can selectively detect the corresponding GPCR
15 in a sample containing non-desired or contaminating proteins or polypeptides, such as a tissue or blood sample. Preferably, the antibodies have a high specificity such that no significant amounts of such proteins or polypeptides are detected, and further preferably have a specificity such that only insubstantial to essentially zero amounts of non-desirable proteins are detected. The antibodies produced using the antigenic peptides of the present invention,
20 for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole, preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[166] The antibodies can be used to conduct immunohistochemistry and other analyses of a variety of tissue samples to determine expression of a particular GPCR in such tissues, for
25 diagnostic assays, and for other desired purposes. The specification will now discuss a variety of antibody types, methods, uses, etc.

[167] ANTIBODIES GENERALLY:

[168] In some embodiments, the present invention provides antibodies and other binding partners created using the antigenic peptides herein and directed to a particular GPCR from
30 which the antigenic peptides were derived. Compositions and uses for such antibodies are contemplated, including diagnostic, medicament, and therapeutic uses. Various diagnostic, medicament, and therapeutic uses for antibodies have been reviewed above and, for example,

in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.*, 53:189-204 (1990); Endo, *Nippon Igaku Hoshasen Gakkai Zasshi* (Japan), 50(8):901-909 (1990); and, U.S. Pat. No. 6,214,984.

[169] Recognized immunoglobulin genes include the kappa, lambda, alpha, gamma, delta, epsilon, and mu constant region genes, as well as myriad immunoglobulin variable region genes. Light chains are classified as either kappa or lambda. Heavy chains are classified as gamma, mu, alpha, delta, or epsilon, which in turn define the immunoglobulin classes, IgG, IgM, IgA, IgD, and IgE, respectively. An exemplary immunoglobulin (antibody) structural unit comprises a tetramer. Each tetramer is composed of two identical pairs of antigenic peptide chains, each pair having one "light" chain (about 25 kD) and one "heavy" chain (about 50-70 kD). The N-terminus of each chain defines a variable region of about 100 to 110 or more amino acids primarily responsible for antigen recognition. The terms variable light chain (V_L) and variable heavy chain (V_H) refer to these light and heavy chains respectively.

15 [170] **ANTI-IDIOTYPIC ANTIBODIES:**

[171] The present invention encompasses anti-idiotypic antibodies, including polyclonal and monoclonal anti-idiotypic antibodies, that are produced using the antibodies described herein as antigens. These anti-idiotypic antibodies are useful because they may mimic the structures of the antigenic peptides set forth herein.

20 [172] Techniques for producing antibodies, including antibody fragments, include the following.

a. Antibody Preparation

(i) Polyclonal Antibodies

25 [173] **ANTIBODY PREP - POLYCLONAL:**

[174] Polyclonal antibodies are generally raised in animals by multiple subcutaneous (sc) or intraperitoneal (ip) injections of the relevant antigen and an adjuvant. It may be useful to conjugate the relevant antigen to a protein that is immunogenic in the species to be immunized, e.g., keyhole limpet hemocyanin, serum albumin, bovine thyroglobulin, or soybean trypsin inhibitor, using a bifunctional or derivatizing agent, for example, maleimidobenzoyl sulfosuccinimide ester (conjugation through cysteine residues), N-

30

hydroxysuccinimide (through lysine residues), glutaraldehyde, succinic anhydride, SOCl_2 , or $\text{R}^1\text{N}=\text{C}=\text{NR}$, where R and R^1 are different alkyl groups.

[175] ANTIBODY PREP – ADJUVANTS (ALL ABS):

[176] Suitable adjuvants for the vaccination of animals for the production of polyclonal, monoclonal, and other antibodies include but are not limited to Adjuvant 65 (containing peanut oil, mannide monooleate, and aluminum monostearate); Freund's complete or incomplete adjuvant; mineral gels such as aluminum hydroxide, aluminum phosphate, and alum; surfactants such as hexadecylamine, octadecylamine, lysolecithin, dimethyldioctadecylammonium bromide, N,N-dioctadecyl-N',N'-bis(2-hydroxymethyl) propanediamine, methoxyhexadecylglycerol, and pluronic polyols; polyanions such as pyran, dextran sulfate, poly IC, polyacrylic acid, and carbopol; peptides such as muramyl dipeptide, dimethylglycine, tuftsin, stress proteins, core-containing proteins from a positive stranded RNA virus, *see* US Pat. No. 6,153,378; and, oil emulsions. The antigenic peptides could also be administered following incorporation into liposomes or other microcarriers.

[177] Information concerning adjuvants and various aspects of immunoassays are disclosed, *e.g.*, in the series by P. Tijssen, Practice and Theory of Enzyme Immunoassays, 3rd Edition (1987), Elsevier, New York. Other useful references covering methods for preparing polyclonal antisera include Microbiology, Hoeber Medical Division, Harper and Row (1969); Landsteiner, Specificity of Serological Reactions, Dover Publications, New York (1962); and, Williams, et al., Methods in Immunology and Immunochemistry, Vol. 1, Academic Press, New York (1967).

[178] Animals can be immunized against the antigen, immunogenic conjugates, or derivatives by combining 1 mg or 1 μg of the peptide or conjugate (for rabbits or mice, respectively) with 3 volumes of Freund's complete adjuvant and injecting the solution intradermally at multiple sites. One month later the animals are boosted with 1/5 to 1/10 the original amount of peptide or conjugate in Freund's complete adjuvant by subcutaneous injection at multiple sites. Seven to 14 days later the animals are bled and the serum is assayed for antibody titer. Animals are boosted until the titer plateaus. Preferably, the animal is boosted with the conjugate of the same antigen, but conjugated to a different protein or through a different cross-linking reagent. Conjugates also can be made in recombinant cell culture as protein fusions. In addition, aggregating agents such as alum can be suitably used to enhance the immune response.

(ii) Monoclonal Antibodies

[179] ANTIBODY PREP - MONOCLONAL:

- [180]** Monoclonal antibodies are obtained from a population of substantially
5 homogeneous antibodies, *e.g.*, the individual antibodies comprising the population are identical except for possible naturally occurring mutations that may be present in minor amounts. For example, monoclonal antibodies can be made using the hybridoma method first described by Kohler and Milstein, *Nature*, 256:495 (1975), or can be made by recombinant DNA methods, or otherwise as desired.
- 10 **[181]** In the hybridoma method, a mouse, or other appropriate host animal, such as a hamster, is immunized as described herein to elicit lymphocytes that produce or are capable of producing antibodies that will bind specifically to the antigenic peptide used for immunization. Alternatively, lymphocytes may be immunized *in vitro*. Lymphocytes then are fused with myeloma cells using a suitable fusing agent, such as polyethylene glycol, to
15 form a hybridoma cell, Goding, *Monoclonal Antibodies: Principles and Practice*, pp. 59-103, Academic Press (1986).
- [182]** The hybridoma cells thus prepared are seeded and grown in a suitable culture medium that preferably contains one or more substances that inhibit the growth or survival of the unfused, parental myeloma cells. For example, if the parental myeloma cells lack the
20 enzyme hypoxanthine guanine phosphoribosyl transferase (HGPRT or HPRT), the culture medium for the hybridomas typically will include hypoxanthine, aminopterin, and thymidine (HAT medium), which substances prevent the growth of HGPRT-deficient cells.
- [183]** Preferred myeloma cells are those that fuse efficiently, support stable high-level production of antibody by the selected antibody-producing cells, and are sensitive to a
25 medium such as HAT medium, for example murine myeloma lines, such as those derived from MOPC-21 and MPC-11 mouse tumors available from the Salk Institute Cell Distribution Center, San Diego, CA USA, and SP-2 cells available from the American Type Culture Collection, Rockville, MD USA. Human myeloma and mouse-human heteromyeloma cell lines have also been described for the production of human monoclonal
30 antibodies, Kozbor, *J. Immunol.*, 133:3001 (1984); Brodeur et al., *Monoclonal Antibody Production Techniques and Applications*, pp. 51-63, Marcel Dekker, Inc., New York (1987).

[184] Culture medium in which hybridoma cells are growing is assayed for production of monoclonal antibodies directed against the antigenic peptide. The binding specificity of monoclonal antibodies produced by hybridoma cells can be determined by immunoprecipitation or by an *in vitro* binding assay, such as radioimmunoassay (RIA) or
5 enzyme-linked immunosorbent assay (ELISA). The binding affinity of the monoclonal antibody can, for example, be determined by the Scatchard analysis of Munson and Pollard, Anal. Biochem., 107:220 (1980). The antibodies produced using the antigenic peptides of the present invention, for example, typically have an affinity or avidity constant (K_a) of at least about 10^7 liters/mole, typically a high affinity or avidity at least about 10^9 liters/mole,
10 preferably at least about 10^{10} liters/mole, and further preferably at least about 10^{11} liters/mole.

[185] After hybridoma cells are identified that produce antibodies of the desired specificity, affinity, or activity, the clones may be subcloned by limiting dilution procedures and grown by standard methods (Goding, *supra*). Suitable culture media for this purpose include, for example, D-MEM or RPMI-1640 medium. In addition, the hybridoma cells may
15 be grown *in vivo* as ascites tumors in an animal.

[186] The monoclonal antibodies secreted by the subclones are suitably separated from the culture medium, ascites fluid, or serum by conventional immunoglobulin purification procedures such as, for example, protein A-SEPHAROSETM, hydroxyapatite chromatography, gel electrophoresis, dialysis, or affinity chromatography.

[187] DNA encoding the monoclonal antibodies can be readily isolated and sequenced using conventional procedures (*e.g.*, by using oligonucleotide probes that are capable of binding specifically to genes encoding the heavy and light chains of murine antibodies). The hybridoma cells serve as a preferred source of such DNA. Once isolated, the DNA may be placed into expression vectors, which can then be transfected into host cells such as *E. coli*
25 cells, simian COS cells, Chinese hamster ovary (CHO) cells, or myeloma cells that do not otherwise produce immunoglobulin protein, to obtain the synthesis of monoclonal antibodies in the recombinant host cells. Review articles on recombinant expression in bacteria of DNA encoding antibody include Skerra et al., Curr. Opinion in Immunol., 5:256-262 (1993), and Pluckthun, Immunol. Revs., 130:151-188 (1992).

30 [188] **MOABS - COMBINATORIAL:**

[189] In a further embodiment, antibodies or antibody fragments can be isolated from antibody phage libraries generated using the techniques described in McCafferty et al.,

Nature, 348:552-554 (1990), using the proper antigen such as CD11a, CD18, IgE, or HER-2 to select for a suitable antibody or antibody fragment. Clackson et al., Nature, 352:624-628 (1991) and Marks et al., J. Mol. Biol., 222:581-597 (1991) describe the isolation of murine and human antibodies, respectively, using phage libraries. Subsequent publications describe the production of high affinity (nM range) human antibodies by chain shuffling, Marks et al., Biotechnology, 10:779-783 (1992), as well as combinatorial infection and *in vivo* recombination as strategies for constructing very large phage libraries, Waterhouse et al., Nuc. Acids. Res., 21:2265-2266 (1993). Combinatorial antibodies are also discussed in Huse et al., Science 246:1275-1281 (1989), and Sastry et al., Proc. Natl. Acad. Sci. USA, 86:5728-5732 (1989), and Alting-Mees et al., Strategies in Molecular Biology 3:1-9 (1990). These references describe a system commercially available from Stratacyte, La Jolla, CA USA. Briefly, mRNA is isolated from a B cell population and utilized to create heavy and light chain immunoglobulin cDNA expression libraries in the λ IMMUNOZAP(H) and λ IMMUNOZAP(L) vectors. These vectors may be screened individually or co-expressed to form Fab fragments or antibodies, *see* Huse et al., *supra*; *see also* Sastry et al., *supra*. Positive plaques can subsequently be converted to a non-lytic plasmid, which allows for high-level expression of monoclonal antibody fragments from *E. coli*.

[190] HUMANIZED MOAB:

[191] Binding partners can also be constructed utilizing recombinant DNA techniques to incorporate the variable regions of a gene that encode a specifically binding antibody. The construction of these binding partners can be readily accomplished by one of ordinary skill in the art in view of the present application. *See* Larrick et al., Biotechnology, 7:934-938 (1989); Riechmann et al., Nature, 332:323-327 (1988); Roberts et al., Nature, 328:731-734 (1987); Verhoeyen et al., Science 239:1534-1536 (1988); Chaudhary et al., Nature, 339:394-397 (1989); *see also* U.S. Pat. No. 5,132,405 entitled "Biosynthetic Antibody Binding Sites".) For example, the DNA can be modified by substituting the coding sequence for human heavy- and light-chain constant domains in place of homologous murine sequences, U.S. Pat. No. 4,816,567; Morrison, et al., Proc. Nat. Acad. Sci., 81:6851 (1984), or by covalently joining to the immunoglobulin coding sequence all or part of the coding sequence for a non-immunoglobulin polypeptide. In another example, DNA segments encoding the desired antigen-binding domains specific for the protein or peptide of interest are amplified from appropriate hybridomas and inserted directly into the genome of a cell that produces human

antibodies. *See* Verhoeven et al., *supra*; *see also* Reichmann et al., *supra*. Some of these techniques transfer the antigen-binding site of a specifically binding mouse or rat monoclonal antibody or the like to a human antibody. Such antibodies can be preferable for therapeutic use in humans because they are typically not as antigenic as rat or mouse antibodies.

- 5 [192] In an alternative embodiment, genes that encode the variable region from a hybridoma producing a monoclonal antibody of interest can be amplified using oligonucleotide primers for the variable region. These primers may be synthesized by one of ordinary skill in the art, or may be purchased from commercially available sources. For instance, primers for mouse and human variable regions including, among others, primers for
- 10 $V_{H\alpha}$, $V_{H\beta}$, $V_{H\gamma}$, $V_{H\delta}$, C_{H1} , V_L , and C_L regions are available from Stratacyte (La Jolla, CA). These primers may be utilized to amplify heavy- or light-chain variable regions, which may then be inserted into vectors such as IMMUNOZAPTM(H) or IMMUNOZAPTM(L) (Stratacyte), respectively. These vectors may then be introduced into *E. coli* for expression. Utilizing these techniques, large amounts of a single-chain protein containing a fusion of the
- 15 V_H and V_L domains may be produced, *see* Bird et al., *Science* 242:423-426 (1988).

[193] ANTIBODY SUBSTITUTIONS - NON-IMMUNOGLOBULIN POLYPEPTIDES (ALL ABS):

- [194] Non-immunoglobulin polypeptides can be substituted in monoclonal and other antibodies described herein for the constant domains of an antibody, or they can be
- 20 substituted for the variable domains of one antigen-combining site of an antibody to create a chimeric bivalent antibody comprising one antigen-combining site having specificity for an antigen and another antigen-combining site having specificity for a different antigen.

[195] CHIMERICS:

- [196] Chimeric or hybrid antibodies can also be prepared *in vitro* using known methods in
- 25 synthetic protein chemistry, including those involving crosslinking agents, in view of the present application. For example, immunotoxins may be constructed using a disulfide-exchange reaction or by forming a thioether bond. Examples of suitable reagents for this purpose include iminothiolate and methyl-4-mercaptobutyrimidate.

[197] ANTIBODY LABELING (ALL ABS):

- 30 [198] For diagnostic applications or otherwise as desired, and for monoclonal and other antibodies described herein, the antibodies and other binding partners typically will be labeled with a detectable moiety. The detectable moiety can be any moiety that is capable of

producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ^3H , ^{14}C , ^{32}P , ^{35}S , or ^{125}I ; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or horseradish peroxidase. Any method known in the art for conjugating the antibody or binding partner to the detectable moiety may be employed, including those methods described by Hunter et al., *Nature*, 144:945 (1962); David et al., *Biochemistry*, 13:1014 (1974); Pain et al., *J. Immunol. Meth.*, 40:219 (1981); and Nygren, J. *Histochem. Cytochem.*, 30:407 (1982).

10 (iii) Humanized And Human Antibodies

[199] HUMANIZED AB GENERALLY:

[200] Methods for humanizing non-human antibodies are well known in the art and have been discussed in part above. Generally, a humanized antibody has one or more amino acid residues introduced into it from a source which is non-human. These non-human amino acid residues are often referred to as "import" residues, which are typically taken from an "import" variable domain. Humanization can be performed essentially following the method of Winter and co-workers, Jones et al., *Nature*, 321:522-525 (1986); Riechmann et al., *Nature*, 332:323-327 (1988); Verhoeyen et al., *Science*, 239:1534-1536 (1988), by substituting rodent CDRs or CDR sequences for the corresponding sequences of a human antibody. Accordingly, such humanized antibodies are chimeric antibodies, U.S. Pat. No. 4,816,567, wherein substantially less than an intact human variable domain has been substituted by the corresponding sequence from a non-human species. In practice, humanized antibodies are typically human antibodies in which some CDR residues and possibly some FR residues are substituted by residues from analogous sites in rodent antibodies.

[201] The choice of human variable domains, both light and heavy, to be used in making humanized antibodies is very important to reduce antigenicity. According to the so-called "best-fit" method, the sequence of the variable domain of a rodent antibody is screened against the entire library of known human variable-domain sequences. The human sequence that is closest to that of the rodent is then accepted as the human framework (FR) for the humanized antibody. Sims et al., *J. Immunol.*, 151:2296 (1993); Chothia and Lesk, *J. Mol. Biol.*, 196:901 (1987). Another method uses a particular framework derived from the consensus sequence of all human antibodies of a particular subgroup of light or heavy chains.

The same framework may be used for several different humanized antibodies. Carter et al., Proc. Natl. Acad. Sci. USA, 89:4285 (1992); Presta et al., J. Immunol., 151:2623 (1993).

[202] It is typically desirable that antibodies be humanized with retention of high affinity for the antigen and other favorable biological properties. To achieve this goal, according to one method, humanized antibodies are prepared by a process of analysis of the parental sequences and various conceptual humanized products using three-dimensional models of the parental and humanized sequences. Three-dimensional immunoglobulin models are commonly available and are familiar to those skilled in the art. Computer programs are available that illustrate and display probable three-dimensional conformational structures of selected candidate immunoglobulin sequences. Inspection of these displays permits analysis of the likely role of the residues in the functioning of the candidate immunoglobulin sequence, *e.g.*, the analysis of residues that influence the ability of the candidate immunoglobulin to bind antigen. In this way, FR residues can be selected and combined from the consensus and import sequences so that the desired antibody characteristic, such as increased affinity for the target antigen(s), is achieved. In general, CDR residues are directly and most substantially involved in influencing antigen binding.

[203] It is also possible to produce transgenic animals (*e.g.*, mice) that are capable, upon immunization, of producing a full repertoire of human antibodies in the absence of endogenous immunoglobulin production. For example, it has been described that the homozygous deletion of the antibody heavy-chain joining region (J_H) gene in chimeric and germ-line mutant mice results in complete inhibition of endogenous antibody production. Transfer of the human germ-line immunoglobulin gene array in such germ-line mutant mice will result in the production of human antibodies upon antigen challenge. *See, e.g.*, Jakobovits et al., Proc. Natl. Acad. Sci. USA. 90:2551-255 (1993); Jakobovits et al., Nature, 362:255-258 (1993); Bruggemann et al., Year Immuno., 7:33 (1993). Human antibodies can also be produced in phage-display libraries, Hoogenboom and Winter, J. Mol. Biol., 227:381 (1991); Marks et al., J. Mol. Biol., 222:581 (1991).

(iv) Antibody Fragments

[204] **ANTIBODY FRAGMENTS:**

[205] Various techniques have been developed for the production of antibody fragments. Such fragments can be derived via proteolytic digestion of intact antibodies, *see, e.g.*,

Morimoto et al., J. Biochem. Biophys. Meth. 24:107-117 (1992) and Brennan et al., Science, 229:81 (1985). Fragments can also be produced directly by recombinant host cells. For example, antibody fragments can be isolated from antibody phage libraries discussed above. Fab'-SH fragments can be directly recovered from *E. coli* and chemically coupled to form F(ab')₂ fragments, Carter et al., Biotechnology 10:163-167 (1992). F(ab')₂ fragments can be isolated directly from recombinant host cell culture. Other techniques for the production of antibody fragments will be apparent to the skilled practitioner.

(v) Bispecific Antibodies

10 [206] **BISPECIFIC ANTIBODIES GENERALLY:**

[207] Bispecific antibodies (BsAbs) are antibodies that have binding specificities for at least two different antigens. Bispecific antibodies can be derived from full-length antibodies or from antibody fragments, *e.g.*, F(ab')₂ bispecific antibodies.

[208] Methods for making bispecific antibodies are known in the art. Traditional
15 production of full-length bispecific antibodies is based on the coexpression of two immunoglobulin heavy chain-light chain pairs, where the two chains have different specificities, Millstein and Cuello, Nature, 305:537-539 (1983). Because of the random assortment of immunoglobulin heavy and light chains, these hybridomas (quadromas) produce a mixture of potentially 10 different antibody molecules, of which only one has the
20 correct bispecific structure. Purification of the correct molecule, which is usually accomplished by affinity chromatography steps, is rather cumbersome, and the product yields are low. Similar procedures are disclosed in WO 93/08829, and in Traunecker et al., E.M.B.O. J., 10:3655-3659 (1991).

[209] According to another approach, antibody variable domains containing the desired
25 binding specificities (antibody-antigen combining sites) are fused to immunoglobulin constant domain sequences. The fusion is preferably with an immunoglobulin heavy chain constant domain, comprising at least part of the hinge, C_H 2, and C_H 3 regions. It is preferred to have the first heavy-chain constant region (C_H 1) containing the site necessary for light chain binding, present in at least one of the fusions. DNAs encoding the immunoglobulin
30 heavy chain fusions and, if desired, the immunoglobulin light chain, are inserted into separate expression vectors, and are co-transfected into a suitable host organism. This provides for great flexibility in adjusting the mutual proportions of the three polypeptide fragments in

embodiments when unequal ratios of the three polypeptide chains used in the construction provide the improved yields. It is, however, possible to insert the coding sequences for two or all three polypeptide chains in one expression vector when the expression of at least two polypeptide chains in equal ratios results in high yields or when the ratios are of no particular
5 significance.

[210] ANTIBODIES - HYBRID IMMUNOGLOBULIN HEAVY CHAIN:

[211] In one embodiment of this approach, the bispecific antibodies are composed of a hybrid immunoglobulin heavy chain with a first binding specificity in one arm, and a hybrid immunoglobulin heavy chain-light chain pair (providing a second binding specificity) in the
10 other arm. This asymmetric structure may facilitate the separation of the desired bispecific compound from unwanted immunoglobulin chain combinations, as the presence of an immunoglobulin light chain in only one half of the bispecific molecule provides for a facile method of separation. This approach is discussed in WO 94/04690. For further details of generating bispecific antibodies see, for example, Suresh et al., Meth. Enzymol., 121:210
15 (1986).

[212] ANTIBODIES - CROSS-LINKED OR "HETEROCONJUGATE":

[213] Bispecific antibodies include cross-linked or "heteroconjugate" antibodies. For example, one of the antibodies in the heteroconjugate can be coupled to avidin, the other to biotin. Such antibodies have, for example, been proposed to target immune system cells to
20 unwanted cells, U.S. Pat. No. 4,676,980), and for treatment of HIV infection, WO 91/00360, WO 92/200373, and EP 03089). Heteroconjugate antibodies may be made using any convenient cross-linking methods. Suitable cross-linking agents are well known in the art, and are disclosed in U.S. Pat. No. 4,676,980, along with a number of cross-linking techniques.

25 [214] ANTIBODIES - DIABODIES:

[215] The "diabody" technology described by Hollinger et al., Proc. Natl. Acad. Sci. USA, 90:6444-6448 (1993) has provided an alternative mechanism for making BsAb fragments. The fragments comprise a heavy-chain variable domain (V_H) connected to a light-chain variable domain (V_L) by a linker that is too short to allow pairing between the two domains
30 on the same chain. Accordingly, the V_H and V_L domains of one fragment are forced to pair with the complementary V_L and V_H domains of another fragment, thereby forming two antigen-binding sites.

[216] Another strategy for making BsAb fragments by the use of single-chain Fv (sFv) dimers has also been reported. See Gruber et al., J. Immunol., 152:5368 (1994). These researchers designed an antibody comprising the V_H and V_L domains of a first antibody joined by a 25-amino-acid-residue linker to the V_H and V_L domains of a second antibody.

5 The refolded molecule bound to fluorescein and the T-cell receptor and redirected the lysis of human tumor cells that had fluorescein covalently linked to their surface.

[217] **ANTIBODIES - OTHER:**

[218] Techniques for generating bispecific antibodies from antibody fragments have also been described in the literature. For example, bispecific antibodies can be prepared using
10 chemical linkage. Brennan et al., Science, 229:81 (1985) describe a procedure wherein intact antibodies are proteolytically cleaved to generate F(ab')₂ fragments. These fragments are reduced in the presence of the dithiol complexing agent sodium arsenite to stabilize vicinal dithiols and prevent intermolecular disulfide formation. The Fab' fragments generated are then converted to thionitrobenzoate (TNB) derivatives. One of the Fab'-TNB derivatives is
15 then reconverted to the Fab'-thiol by reduction with mercaptoethylamine and is mixed with an equimolar amount of the other Fab'-TNB derivative to form the BsAb. The BsAbs produced can be used as agents for the selective immobilization of enzymes.

[219] Fab'-SH fragments can be directly recovered from *E. coli*, which can be chemically coupled to form bispecific antibodies. Shalaby et al., J. Exp. Med., 175:217-225 (1992)
20 describe the production of a fully humanized BsAb F(ab')₂ molecule. Each Fab' fragment was separately secreted from *E. coli* and subjected to directed chemical coupling *in vitro* to form the BsAb. The BsAb thus formed was able to bind to cells overexpressing the HER2 receptor and normal human T cells, as well as trigger the lytic activity of human cytotoxic lymphocytes against human breast tumor targets. See also Rodriguez et al., Int. J. Cancers
25 (Suppl.) 7:45-50 (1992).

[220] Various techniques for making and isolating BsAb fragments directly from recombinant cell culture have also been described. For example, bispecific F(ab')₂ heterodimers have been produced using leucine zippers. Kostelny et al., J. Immunol., 148(5):1547-1553 (1992). The leucine zipper peptides from the Fos and Jun proteins are
30 linked to the Fab' portions of two different antibodies by gene fusion. The antibody homodimers are reduced at the hinge region to form monomers and then re-oxidized to form the antibody heterodimers.

b. Antibody Purification

[221] ANTIBODY PURIFICATION GENERALLY:

[222] When using recombinant techniques, the antibody can be produced intracellularly, in the periplasmic space, or directly secreted into the medium. If the antibody is produced intracellularly, as a first step, the particulate debris, either host cells or lysed fragments, is removed, for example, by centrifugation or ultrafiltration. Carter et al., Bio/Technology 10:163-167 (1992), describe a procedure for isolating antibodies which are secreted to the periplasmic space of *E. coli*. Briefly, cell paste is thawed in the presence of sodium acetate (pH 3.5), EDTA, and phenylmethylsulfonylfluoride (PMSF) over about 30 min. Cell debris can be removed by centrifugation. Where the antibody is secreted into the medium, supernatants from such expression systems are generally first concentrated using a commercially available protein concentration filter, for example, an Amicon or Millipore Pellicon ultrafiltration unit. A protease inhibitor such as PMSF may be included in any of the foregoing steps to inhibit proteolysis and antibiotics may be included to prevent the growth of adventitious contaminants.

[223] BEFORE LPHIC:

[224] The antibody composition prepared from the cells is preferably subjected to at least one purification step prior to LPHIC. Examples of suitable purification steps include hydroxyapatite chromatography, gel electrophoresis, dialysis, and affinity chromatography. The suitability of protein A as an affinity ligand depends on the species and isotype of any immunoglobulin Fc domain that is present in the antibody. Protein A can be used to purify antibodies that are based on human $\gamma 1$, $\gamma 2$, or $\gamma 4$ heavy chains, Lindmark et al., J. Immunol. Meth. 62:1-13 (1983). Protein G has been recommended for mouse isotypes and for human $\gamma 3$, Guss et al., E.M.B.O. J., 5:1567-1575 (1986). The matrix to which the affinity ligand is attached is often agarose, but other matrices are available. Mechanically stable matrices such as controlled pore glass or poly(styrenedivinyl)benzene allow for faster flow rates and shorter processing times than can be achieved with agarose. Where the antibody comprises a $C_H 3$ domain, the Bakerbond ABXTM resin (J. T. Baker, Phillipsburg, N.J.) is useful for purification. Other techniques for protein purification such as fractionation on an ion-exchange column, ethanol precipitation, Reverse Phase HPLC, chromatography on silica, chromatography on heparin SEPHAROSETM, chromatography on an anion or cation

exchange resin (such as a polyaspartic acid column), chromatofocusing, SDS-PAGE, and ammonium sulfate precipitation are also available depending on the antibody to be recovered.

[225] LPHIC:

[226] Following any preliminary purification step(s), the mixture comprising the antibody of interest and contaminant(s) can be subjected to LPHIC. *See* US Patent No. 6,214,984. Often, the antibody composition to be purified will be present in a buffer from the previous purification step. However, it may be necessary to add a buffer to the antibody composition prior to the LPHIC step. Many buffers are available and can be selected by routine experimentation. The pH of the mixture comprising the antibody to be purified and at least one contaminant in a loading buffer is adjusted to a pH of about 2.5-4.5 using either an acid or base, depending on the starting pH. The loading buffer can have a low salt concentration (*e.g.*, less than about 0.25 M salt).

[227] The mixture is loaded on the HIC column. HIC columns normally comprise a base matrix (*e.g.*, cross-linked agarose or synthetic copolymer material) to which hydrophobic ligands (*e.g.*, alkyl or aryl groups) are coupled. One example of an HIC column comprises an agarose resin substituted with phenyl groups (*e.g.*, a Phenyl SEPHAROSE™ column). Many HIC columns are available commercially. Examples include, but are not limited to, Phenyl SEPHAROSE 6 FAST FLOW™ column with low or high substitution (Pharmacia LKB Biotechnology, AB, Sweden); Phenyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); Octyl SEPHAROSE™ High Performance column (Pharmacia LKB Biotechnology, AB, Sweden); FRACTOGEL™ EMD Propyl or FRACTOGEL™ EMD Phenyl columns (E. Merck, Germany); MACRO-PREP™ Methyl or MACRO-PREP™ t-Butyl Supports (Bio-Rad, California); WP HI-Propyl (C₃)™ column (J. T. Baker, New Jersey); and TOYOPEARL™ ether, phenyl, or butyl columns (TosoHaas, PA).

[228] The antibody is typically eluted from the column using an elution buffer that is the same as the loading buffer. The elution buffer can be selected using routine experimentation in view of the present application. The pH of the elution buffer may be between about 2.5-4.5 and have a low salt concentration (*e.g.*, less than about 0.25 M salt). It may not be necessary to use a salt gradient to elute the antibody of interest; the desired product may be recovered in the flow-through fraction that does not bind significantly to the column.

[229] The LPHIC step provides a way to remove a correctly folded and disulfide bonded antibody from unwanted contaminants (*e.g.*, incorrectly associated light and heavy fragments). The method can provide an approach to substantially remove an impurity characterized as a correctly folded antibody fragment whose light and heavy chains fail to associate through disulfide bonding. Antibody compositions prepared using LPHIC can be up to about 95% pure or more. Purities of more than about 98% have been reported. US Patent No. 6,214,984.

[230] **POST LPHIC:**

[231] Antibody compositions prepared by LPHIC can be further purified as desired using techniques which are well known in the art. Diagnostic or therapeutic formulations of the purified protein can be made by providing the antibody composition in a physiologically acceptable carrier, examples of which are provided below. To remove contaminants (*e.g.*, unfolded antibody and incorrectly associated light and heavy fragments) from the HIC column so that it can be re-used, a composition including urea (*e.g.*, 6.0 M urea, 1% MES buffer pH 6.0, 4 mM ammonium sulfate) can be flowed through the column.

c. Some Uses For Antibodies Described Herein

(i) Generally

[232] **GENERALLY:**

[233] The present invention comprises any suitable use for the antibodies and other binding partners discussed herein. The following provides some of the desired uses, including diagnostic and therapeutic uses. Various diagnostic and therapeutic uses for antibodies have been reviewed in Goldenberg et al., *Semin. Cancer Biol.*, 1(3):217-225 (1990); Beck et al., *Semin. Cancer Biol.*, 1(3):181-188 (1990); Niman, *Immunol. Ser.* 53:189-204 (1990); and, Endo, *Nippon Igaku Hoshasen Gakkai Zasshi (Japan)* 50(8):901-909 (1990), for example.

[234] **ASSAYS:**

[235] The antibodies can be used in immunoassays, such as enzyme immunoassays. BsAbs can be useful for this type of assay; one arm of the BsAb can be designed to bind to a specific epitope on the enzyme so that binding does not cause enzyme inhibition, the other arm of the antibody can be designed to bind to an immobilizing matrix ensuring a high enzyme density at the desired site. Examples of such diagnostic BsAbs include those having

specificity for IgG as well as ferritin, and those having binding specificities for horseradish peroxidase (HRP) as well as a hormone, for example. Monoclonal and polyclonal antibodies are also exemplary antibodies for immunoassays.

- [236] The antibodies can be designed for use in two-site immunoassays. For example, two antibodies are produced binding to two separate epitopes on the analyte protein; one antibody binds the complex to an insoluble matrix, the other binds an indicator enzyme.

[237] DIAGNOSTIC USES:

- [238] Antibodies can also be used for immunodiagnosis, *in vitro* or *in vivo* or otherwise, of various diseases or conditions based on the presence or absence of a particular GPCR.
- Such diseases and conditions include, *e.g.*, immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (*e.g.*, osteoarthritis, osteoporosis), carcinoma (*e.g.*, basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and

cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved.

- 5 [239] To facilitate this diagnostic use, an antibody that binds a particular GPCR, when such is differentially expressed in tumors or other target diseases, can be conjugated with a detectable marker (*e.g.*, a chelator that binds a radionuclide). Examples of tumor-associated antigens being used in a similar fashion include an antibody having specificity for the tumor-associated antigen CEA used for imaging colorectal and thyroid carcinomas and the anti-
10 p185^{HER2} antibody used for detecting cancers characterized by amplification of the HER2 protooncogene. Other uses for the antibodies of the present invention will be apparent to the skilled practitioner in view of the present application.

(ii) Assays

15 [240] **ASSAYS:**

[241] For certain applications such as some diagnostic and other assay applications, the antibody typically can be labeled directly or indirectly with a detectable moiety. The detectable moiety can be any moiety that is capable of producing, either directly or indirectly, a detectable signal. For example, the detectable moiety may be a radioisotope, such as ³H,
20 ¹⁴C, ³²P, ³⁵S, or ¹²⁵I; a fluorescent or chemiluminescent compound, such as fluorescein isothiocyanate, rhodamine, or luciferin; or an enzyme, such as alkaline phosphatase, beta-galactosidase, or HRP.

[242] Any method known in the art for separately conjugating the antibody to the detectable moiety may be employed, including those methods described by Hunter et al.,
25 Nature, 144:945 (1962); David et al., Biochemistry, 13:1014 (1974); Pain et al., J. Immunol. Meth. 40:219 (1981); and, Nygren, J. Histochem. and Cytochem. 30:407 (1982).

[243] The antibodies of the present invention may be employed in any desired assay method, such as competitive binding assays, direct, and indirect sandwich assays, and immunoprecipitation assays. Zola, Monoclonal Antibodies: A Manual of Techniques, pp.
30 147-158 (CRC Press, Inc. (1987).

[244] **COMPETITIVE BINDING ASSAYS:**

[245] Competitive binding assays rely on the ability of a labeled standard to compete with the test sample analyte for binding with a limited amount of antibody. The amount of analyte in the test sample is inversely proportional to the amount of standard that becomes bound to the antibody. To facilitate determining the amount of standard that becomes bound, the antibody generally is insolubilized before or after the competition, so that the standard, and analyte that are bound to the antibody may conveniently be separated from the standard, and analyte which remain unbound.

[246] BsAbs are particularly useful for sandwich assays which involve the use of two molecules, each capable of binding to a different immunogenic portion, or epitope, of the sample to be detected. In a sandwich assay, the test sample analyte is bound by a first arm of the antibody which is immobilized on a solid support, and thereafter a second arm of the antibody binds to the analyte, thus forming an insoluble three part complex. *See, e.g.*, U.S. Pat. No. 4,376,110. The second arm of the antibody may itself be labeled with a detectable moiety (direct sandwich assays) or may be measured using an anti-immunoglobulin antibody that is labeled with a detectable moiety (indirect sandwich assay). For example, one type of sandwich assay is an ELISA assay, in which case the detectable moiety is an enzyme. Assays are discussed further elsewhere herein in relation to binding partners such as antibodies, and antigenic peptides for particular GPCRs, including assays searching for or using such antigenic peptides, and would be apparent to those skilled in the art in view of the present application.

(iii) Affinity Purification

[247] **AFFINITY PURIFICATION:**

[248] The antibodies also are useful for the affinity purification of an antigen of interest such as a particular GPCR from sources such as recombinant cell culture or natural sources.

(iv) Therapeutics

[249] **THERAPEUTIC USES:**

[250] Therapeutic compositions, and uses, etc., for the antibodies described herein will now be discussed. As with other parts of this application, this section does not contain the entire discussion of therapeutic uses or compositions, etc., for antibodies; other sections discuss both antibodies, and therapeutics, and the discussion in this section applies to certain

other aspects discussed herein. Turning to antibodies and therapeutics, the antibodies can be used, for example, for redirected cytotoxicity (*e.g.*, to kill tumor cells), as a vaccine adjuvant, for delivering thrombolytic agents to clots, for delivering immunotoxins to tumor cells, for converting enzyme activated prodrugs at a target site (*e.g.*, a tumor), for treating infectious
5 diseases or targeting immune complexes to cell surface receptors.

[251] THERAPEUTIC FORMULATIONS:

[252] Therapeutic formulations of the antibody can be prepared for storage by mixing the antibody having the desired degree of purity with optional physiologically acceptable carriers, excipients, or stabilizers (Remington's Pharmaceutical Sciences, 16th edition, Osol,
10 A., Ed. (1980), for example in the form of lyophilized cake or aqueous solutions. Acceptable carriers, excipients, or stabilizers are nontoxic to recipients at the dosages, and concentrations employed, and include buffers such as phosphate, citrate, and other organic acids; antioxidants including ascorbic acid; low molecular weight (less than about 10 residues) polypeptides; proteins, such as serum albumin, gelatin, or immunoglobulins; hydrophilic
15 polymers such as polyvinylpyrrolidone; amino acids such as glycine, glutamine, asparagine, arginine, or lysine; monosaccharides, disaccharides, and other carbohydrates including glucose, mannose, or dextrans; chelating agents such as EDTA; sugar alcohols such as mannitol or sorbitol; salt-forming counterions such as sodium; or nonionic surfactants such as Tween, Pluronics, or polyethylene glycol (PEG).

[253] The antibodies also may be entrapped in microcapsules prepared, for example, by coacervation techniques or by interfacial polymerization (for example, hydroxymethylcellulose or gelatin-microcapsules, and poly-[methylmethacrylate] microcapsules, respectively), in colloidal drug delivery systems (for example, liposomes, albumin microspheres, microemulsions, nano-particles, and nanocapsules), or in
25 macroemulsions. Such techniques are disclosed in Remington's Pharmaceutical Sciences, *supra*.

[254] THERAPEUTIC FORMULATIONS -STERILE:

[255] An antibody to be used for *in vivo* human administration should be sterile. This can be accomplished by filtration through sterile filtration membranes, for example prior to or
30 following lyophilization and reconstitution. The antibody ordinarily will be stored in lyophilized form or in solution. Therapeutic antibody compositions generally are placed into

a container having a sterile access port, for example, an intravenous solution bag or vial having a stopper pierceable by a hypodermic injection needle.

[256] THERAPEUTIC ADMINISTRATIONS:

[257] The route of antibody administration is in accord with known methods, *e.g.*,
5 injection or infusion by intravenous, intraperitoneal, intracerebral, intramuscular, intraocular, intraarterial, or intralesional routes, or by sustained release systems as noted below.

[258] The antibody can be administered, for example, continuously by infusion or by bolus injection. Suitable examples of sustained-release preparations include semipermeable matrices of solid hydrophobic polymers containing the protein, which matrices are in the
10 form of shaped articles, *e.g.*, films, or microcapsules. Examples of sustained-release matrices include polyesters, hydrogels (*e.g.*, poly(2-hydroxyethyl-methacrylate) as described by Langer et al., *J. Biomed. Mater. Res.*, 15:167-277 (1981), and Langer, *Chem. Tech.*, 12:98-105 (1982), or poly(vinylalcohol)), polylactides, U.S. Pat. No. 3,773,919; EP 58,481, copolymers of L-glutamic acid and gamma ethyl-L-glutamate, Sidman et al., *Biopolymers*,
15 22:547-556 (1983), non-degradable ethylene-vinyl acetate, Langer et al., *supra*, degradable lactic acid-glycolic acid copolymers such as the LUPRON DEPOT™ (injectable microspheres composed of lactic acid-glycolic acid copolymer and leuprolide acetate), and poly-D-(-)-3-hydroxybutyric acid, EP 133,988.

[259] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-POLYMERS:

[260] While polymers such as ethylene-vinyl acetate and lactic acid-glycolic acid sustain release of molecules for over 100 days, certain hydrogels release proteins for shorter time periods. When encapsulated antibodies remain in the body for a long time, they may denature or aggregate as a result of exposure to moisture at 37°C, resulting in a loss of
25 biological activity and possible changes in immunogenicity. Rational strategies can be devised for antibody stabilization depending on the mechanism involved. For example, if the aggregation mechanism is discovered to be intermolecular S-S bond formation through thio-disulfide interchange, stabilization may be achieved by modifying sulfhydryl residues, lyophilizing from acidic solutions, controlling moisture content, using appropriate additives,
30 and developing specific polymer matrix compositions.

[261] THERAPEUTIC ADMINISTRATIONS - SUSTAINED RELEASE-LIPOSOMES:

[262] Sustained-release antibody compositions also include liposomally entrapped antibody. Liposomes containing the antibody can be prepared by methods such as those in DE 3,218,121; Epstein et al., Proc. Natl. Acad. Sci. USA, 82:3688-3692 (1985); Hwang et al., Proc. Natl. Acad. Sci. USA, 77:4030-4034 (1980); EP 52,322; EP 36,676; EP 88,046; EP 143,949; EP 142,641; Japanese patent application 83-118008; U.S. Pat. Nos. 4,485,045 and 4,544,545; and EP 102,324. Ordinarily the liposomes are of the small (about 200-800 Angstroms) unilamellar type in which the lipid content is greater than about 30 mol. % cholesterol, the selected proportion being adjusted for the optimal antibody therapy.

[263] **THERAPEUTICALLY EFFECTIVE AMOUNT:**

10 [264] An effective amount of antibody to be employed therapeutically will depend, for example, upon the therapeutic objectives, the route of administration, and the condition of the patient. Accordingly, it will be necessary for the therapist to titer the dosage and modify the route of administration as required to obtain the optimal therapeutic effect. A typical daily dosage might range from about 1 µg/kg to up to 10 mg/kg or more, depending on the factors
15 mentioned above. Typically, the clinician will administer antibody until a dosage is reached that achieves the desired effect. The progress of this therapy is easily monitored by conventional assays.

5. DRUG DESIGN BASED ON THE ANTIGENS HEREIN OR
20 ANTIBODIES THERETO

[265] **DISEASE/CONDITIONS LIST:**

[266] The peptides and antibodies of the present invention can serve as valuable tools for designing drugs for treating various pathophysiological conditions such as immune-related diseases, cell growth-related diseases, cell regeneration-related diseases, immunological-
25 related cell proliferative diseases, and autoimmune diseases. Examples of specific diseases include AIDS, allergies, Alzheimer's disease, amyotrophic lateral sclerosis, atherosclerosis, bacterial, fungal, protozoan and viral infections, benign prostatic hypertrophy, bone diseases (e.g., osteoarthritis, osteoporosis), carcinoma (e.g., basal cell carcinoma, breast carcinoma, embryonal carcinoma, ovarian carcinoma, renal cell carcinoma, lung adenocarcinoma, lung
30 small cell carcinoma, pancreatic carcinoma, prostate carcinoma, transitional carcinoma of the bladder, squamous cell carcinoma, thyroid carcinoma), cardiomyopathy, chronic and acute inflammation, circadian rhythm disorders, COPD, Crohn's disease, diabetes, Duchenne

muscular dystrophy, embryonal carcinoma, endotoxic shock, environmental stress (*e.g.*, by heat, UV or chemicals), gastrointestinal disorders, glioblastoma multiform, graft vs. host disease, Hodgkin's disease, inflammatory bowel disease, ischemia, stroke, lymphoma, macular degeneration, malignant cytokine production, malignant fibrous histiocytoma, melanoma, meningioma, mesothelioma, multiple sclerosis, nasal congestion, pain, Parkinson's disease, prostate carcinoma, psoriasis, rhabdomyosarcoma, psychotic or neurological disorders (*e.g.*, anxiety, depression, schizophrenia, dementia, mental retardation, memory loss, epilepsy, locomotor problems, respiratory disorders, asthma, eating/body weight disorders including obesity, bulimia, diabetes, anorexia, nausea, hypertension, hypotension), renal disorders, reperfusion injury, rheumatoid arthritis, sarcoma (*e.g.*, chondrosarcoma, Ewing's sarcoma, osteosarcoma), septicemia, seminoma, sexual/reproductive disorders, tonsil, transitional carcinoma of the bladder, transplant rejection, trauma, tuberculosis, ulcers, ulcerative colitis, urinary retention, vascular and cardiovascular disorders, or any other disease or disorder in which G protein-coupled receptors are involved, as well as learning and/or memory disorders, diabetes, pain perception disorders, anorexia, obesity, hormonal release problems, or any other disease or disorder in which a specific GPCR is involved or that would be readily apparent to those skilled in the art in view of the present application.

EXAMPLES

[267] The Examples below provide information as follows: Example 1 relates to the identification and selection of the antigens set forth in Figure 2. Examples 2 to 4 relate to antibody production and purification based on such antigens. Examples 5 to 10 relate to H&E staining. And, Example 11 relates to Western blot analyses.

EXAMPLE 1: SELECTION OF ANTIGENS

[268] Antigenic peptides were derived from the amino acid sequence of a particular GPCR based on analyses of likely antigen-containing regions and specificity of those regions for the protein/gene of interest. The specificity of the antigen peptides (approximately 20 amino acids in length) for antibody generation was determined using the outlined techniques, including BLAST of several public databases. These public databases included but were not limited to GenBank, Swiss Prot Human, Swiss Prot NonHuman, GenPeptH, GenPept M, and

LifeSpan's proprietary databases. With respect to specificity, parameters that precluded the use of a particular peptide included the presence of 6 or more contiguous amino acids with sequence identity to protein(s) other than the protein of interest, the presence of sites of posttranslational modification, including phosphorylation and glycosylation, and highly hydrophobic sequences, which could indicate potential *in situ* localization within the plasma membrane. The peptides were analyzed for antigenicity using the published algorithm of Hopp, T. P., and Woods, K. R, Proc. Natl. Acad. Sci. U.S.A. 78, 3824-3828, (1981). Additional considerations in antigenic peptide design included 1) selection against sequences with multiple prolines in a row, 2) selection against sequences with multiple serines in a row, 3) selection against sequences with multiple lysines in a row, 4) selection against sequences with multiple arginines in a row 5) selection against sequences with multiple aspartic acids in a row, 6) selection against sequences with multiple glutamic acids in a row, 7) selection against peptides containing methionine or tryptophan, which can become oxidized as a result of the cyclization reaction, and 8) avoidance of stretches of 5 or more amino acids having no uncharged amino acids (which also resulted in a desirable charge to peptide length ratio of at least 1 charge:5 residues). The selected antigenic peptides are set forth in the Sequence Listing and in Figure 2.

EXAMPLE 2: ANTIBODY PRODUCTION SCHEDULE

- [269] Day 0 - Pre-immune serum collection (approximately 5.0 ml). Immunize using 200 µg antigen peptide per rabbit in Complete Freund's Adjuvant.
- [270] Day 14 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [271] Day 28 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [272] Day 42 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [273] Day 49 - First production bleed; obtain 24.0 - 26.0 ml.
- [274] Day 56 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.
- [275] Day 63 - Second production bleed and ELISA analysis.

[276] Day 70 - Immunize using 100 µg antigen per rabbit in Incomplete Freund's Adjuvant.

[277] Day 77 - Third production bleed and affinity purification.

5 EXAMPLE 3: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 COUPLING OF PEPTIDE TO CNBR-ACTIVATED SEPHAROSE 4B

[278] Weigh out 0.8 g of CNBr-activated Sepharose 4B (2.5 ml of final gel volume). Wash and re-swell on sintered glass filter with 1 mM HCl, followed by coupling buffer (0.1 M NaHCO₃, 0.25 M NaCl, pH 8.5). Dissolve 10 mg of protein or peptide in coupling buffer.
10 Mix protein solution with gel suspension and incubate 2 hours at room temperature or overnight at 4°C. Block remaining active groups with 0.2 M glycine buffer, pH 8.1. Wash away excess adsorbed protein with coupling buffer, followed by 0.1 M acetate buffer containing 0.5 M NaCl, pH 4.3. Equilibrate the column with phosphate-buffered saline (PBS), pH 7.7.

15 EXAMPLE 4: IMMUNOSORBENT PURIFICATION OF ANTISERUM:
 AFFINITY PURIFICATION OF ANTISERUM

[279] Dilute 10 ml of clear antiserum 1:1 with PBS, pH 7.7, apply to affinity column at a flow rate of 0.3 ml/minute, and monitor absorbance of eluate at 280 nm. Collect fractions of
20 unbound material and rinse column with PBS, pH 7.7. Elute bound antibody with 0.2 M glycine, pH 1.85, and collect eluate until absorbance at 280 nm returns to baseline. Neutralize all collected fractions with 1 M Tris-HCl, pH 8.5 immediately after collection. Determine OD at 280 nm, and determine the total OD recovered. Conduct ELISA analysis with the corresponding antigen to confirm the presence and identity of recovered antibody
25 and the removal of all antibody from the original serum. Concentrate antibody to approximately 2.0 mg/ml and dialyze against PBS with 0.01% NaN₃.

 EXAMPLE 5: PREPARATION OF ANTIBODY DILUTIONS

[280] The purpose of this protocol is to dilute antibodies in solution. Materials include
30 Tris-HCL Buffer with carrier protein and 0.015 M NaN₃ (Dako Antibody Diluent #S0809 (DAKO, Carpinteria, CA); vials containing the antibodies described above or commercial antibodies against the particular GPCR; pipetmen and disposable tips; container of chopped ice; 12 ml Dako reagent tubes; and, reagent tube rack.

[281] The procedure is a) calculate proportions of antibody and diluent according to desired concentrations and volume requirements; b) label reagent tubes and place in rack; c) pipette needed volume of diluent into tube(s); d) place vials of antibodies into ice; e) invert and/or flick antibody vial(s) 3 or 4 times to insure suspension; f) pipette required volume of antibody(s) into corresponding diluent volumes; and, g) mix gently.

EXAMPLE 6: PREPARATION OF AUTOSTAINER SOLUTIONS

[282] The purpose of this protocol is the preparation of concentrated solutions for use in a DAKO autostainer. Materials include DAKO® TBST (Tris Buffered Saline Containing Tween-S3306), 10X Concentrate, DAKO® Target Retrieval Solution, 10x Concentrate (S1699), deionized H₂O, 20L container, with lid, marked at the 10L level, DAKO® TBS (Tris Buffered Saline-S1968), and DAKO Tween® (S1966).

[283] The procedure to make TBST 10x Concentrate is a) pour 2 500 ml bottles DAKO® TBST into a 20 L container, b) add deionized H₂O until solution level is at 10 L mark, c) replace lid and shake 10 to 20 times, d) pour diluted DAKO® TBST into autostainer carboy(s) as designated. The procedure to make Target Retrieval Solution is a) measure 135 ml of deionized H₂O and pour into slide bath, b) measure 15 ml of DAKO® Target Retrieval solution, c) add to H₂O, and d) agitate. This solution is then used in the steam method of target retrieval, Example 9, below. The procedure to make TBS is a) fill 20L container to 10L mark with deionized H₂O, b) add 2 envelopes of DAKO® TBS, c) add 5 ml of DAKO TWEEN®, and d) replace lid and agitate 10 to 20 times.

EXAMPLE 7: PREPARATION OF SOLUTIONS FOR ANTIBODY DETECTION

[284] Solutions for antibody detection are prepared using Vector® Biotinylated antibody (BA series), Vectastain® ABC-AP Kit (AK-5000), 10 mM sodium phosphate, pH 7.5, 0.9% saline (PBS), Vector® Red Alkaline Phosphatase Substrate Kit I (SK-5100), and 100 mM Tris-HCl, pH 8.2 Buffer. To prepare biotinylated antibody, add 10 ml of PBS to reagent tube, add 1 drop biotinylated antibody to the PBS, then mix gently. To prepare ABC, to 10 ml of PBS, add 2 drops each of Reagent A and Reagent B, mix immediately, then allow to stand 30 minutes before use. To prepare AP Red, which should be prepared immediately

before use, to 5 ml of Tris-HCl buffer, add 2 drops of Reagent 1 and mix well, add 2 drops of Reagent 2 and mix well, then add 2 drops of Reagent 3 and mix well.

EXAMPLE 8: DEPARAFFINIZATION AND REHYDRATION OF SAMPLES

[285] The purpose of this protocol is to remove paraffin from and rehydrate preserved tissues in preparation for IHC procedures. Materials and equipment include fume hood, vertical slide rack(s), three xylene (VWR #72060-088) baths, three 100% alcohol blend (VWR #72060-050) baths, two 95% alcohol blend (VWR #72060-052) baths, one 70% alcohol blend (VWR #72060-056) bath, and Tris-Buffered Saline (DAKO® S1968) + Tween® (DAKO S1966).

[286] Insert the slides into the vertical rack(s). Move slides through baths inside fume hood as follows:

Xylene 5 Minutes
Xylene 5 Minutes
Xylene 5 Minutes
100% Alcohol 2 Minutes
100% Alcohol 2 Minutes
100% Alcohol 1 Minute
95% Alcohol 2 Minutes
95% Alcohol 2 Minutes
70% Alcohol 1 Minute

[287] Finally, place slides into a container with TBST.

EXAMPLE 9: STEAM METHOD OF TARGET RETRIEVAL

[288] The purpose of this protocol is to optimize antibody binding within paraffin embedded tissues. Materials and equipment included a steamer, deionized H₂O, target retrieval solution, 10X concentrate (DAKO #S1699), 250 ml graduated cylinder, 15 ml graduated cylinder, staining dish(es), and deparaffinized and rehydrated tissue on microscope slides in immersed TBST. The procedure is to a) fill the steamer with deionized H₂O to appropriate depth as indicated, b) turn the steamer on, c) in a graduated cylinder, measure 135ml of deionized H₂O and pour into staining dish(es), d) pipette 15ml of target retrieval solution and release into deionized H₂O, e) place the staining dish(es) into the basket of the steamer and heat for at least 10 minutes to preheat, f) add rack(s) containing tissue slides to heated target retrieval solution, g) cover and steam for 20 minutes, h) remove container from

steamer and let stand at room temperature for 20 minutes, i) transfer rack(s) with slides to container(s) of TBST, and j) slides are now ready for staining procedures.

EXAMPLE 10: ANTIBODY DETECTION

- 5 [289] The deparaffinized, rehydrated, and steamed (if needed) slides are loaded onto racks within a DAKO autostainer and then the autostainer is run according to the manufacturer's instructions. The slides are removed and the autostainer is turned off.

EXAMPLE 11: WESTERN BLOTTING

- 10 [290] The purpose of this protocol is to visualize the immunoreactivity of the antibodies described above against the particular GPCR on a western blot. Materials and equipment included western blot membrane, TBS Tween (TBST: 100 mM Tris-HCl pH 7.5, 150 mM NaCl, 0.1% TweenTM 20), 5% non-fat dried milk in TBST (blotto), antibody of interest (primary), peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) (secondary) –
- 15 Jackson ImmunoResearch, ECL solution (Amersham Biosciences, Uppsala Sweden), film, developer D-19, fixer, rocking platform.
- [291] During the blotting procedure, the blot is kept wet at all times and on a substantially level surface. The Western blot is placed right-side up in 10 ml of blotto. The membrane is flipped over and the dish rocked so that the solution covered it. The membrane is then
- 20 flipped back to the right side and solution is again rocked over it. The blot is then placed on a shaker for at least 1 hour. Ten ml of primary antibody are prepared by diluting 1:500 in blotto.
- [292] The blotto is removed from the Western blot and replaced with the primary antibody. The blot is flipped again and placed on the shaker for 1 hour. Secondary antibody
- 25 and peroxidase-conjugated AffiniPure goat anti-rabbit IgG (H+L) are prepared 1:20,000 in 10 ml of blotto. The primary antibody is removed and the Western blot is washed 3 times with 10 ml of blotto. The blotto is removed and replaced with the secondary antibody solution. The blot is flipped and placed on the shaker for 1 hour. The secondary antibody is removed and the blot washed 2 times with 10 ml of blotto. The blotto is removed and the blot is
- 30 washed 2 times with 10 ml TBST. ECL is prepared by combining equal amounts of Solution 1 and 2.

[293] The blotto is removed and 1 ml of ECL is placed on the blot. The blot is flipped and let sit for 1 minute. The blot is placed on plastic wrap and immediately covered with plastic wrap. The ECL is pressed out. The blot is placed on the film, then the film is developed.

5

[294] From the foregoing, it will be appreciated that, although specific embodiments of the invention have been described herein for purposes of illustration, various modifications may be made without deviating from the spirit and scope of the invention. Accordingly, the invention includes all permutations and combinations of the subject matter set forth herein
10 and is not limited except as by the appended claims.

WHAT IS CLAIMED IS:

1. An isolated antigenic peptide according to any one of SEQ ID NOS. 692-2292.
- 5 2. An isolated antigenic peptide comprising an amino acid sequence that is at least about 90% identical to a sequence set forth in any one of SEQ ID NOS. 692-2292.
3. An isolated antigenic peptide that is an analog of an antigenic peptide according to any one of SEQ ID NOS. 692-2292.
4. An isolated antigenic peptide comprising a short antigenic amino acid
10 sequence that is identical to at least 5 consecutive amino acids set forth in any one of SEQ ID NOS. 692-2292.
5. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids set forth in any one of SEQ ID NOS. 692-
15 2292.
6. A kit for the detection of antibodies against a particular GPCR in a sample comprising:
 - a) an isolated antigenic peptide according to any one of claims 1-5 and derived from the particular GPCR, and
 - 20 b) at least one of a reagent or a device for detecting the antibodies.
7. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151,
25 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187,
30 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.
8. An isolated antibody having high specificity and high affinity or avidity for a particular GPCR comprising a peptide sequence that is at least about 90% identical to any

one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using the peptide sequence that is
5 at least about 90% identical to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

9. An isolated antibody having high specificity and high affinity or avidity for a
10 particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced using an isolated antigenic peptide comprising the
15 peptide sequence that is the analog to the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

10. An isolated antibody having high specificity and high affinity or avidity for a
20 particular GPCR comprising a peptide sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372, wherein the antibody was produced
25 using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 692-703, 713-730, 744-802, 807-820, 825-875, 880-889, 917-941, 950-964, 971-984, 989-993, 1010-1013, 1021-1024, 1029-1043, 1049-1052, 1057-1072, 1087-1113, 1124-1151, 1161-1172, 1179-1187, 1198-1209, 1228-1231, 1245-1257, 1271-1279, 1304-1308, 1369-1372.

30 11. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

12. An isolated antibody specific for a particular GPCR comprising a peptide 15 sequence that is at least about 90% identical to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 20 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using the peptide sequence that is at least about 90% identical to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 25 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 13. An isolated antibody specific for a particular GPCR comprising a peptide sequence that is an analog to any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028,

1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955,
 5 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using an isolated antigenic peptide comprising the peptide sequence that is the analog to the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270,
 10 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

14. An isolated antibody specific for a particular GPCR comprising a peptide
 15 sequence that is identical to at least 5 consecutive amino acids set forth any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009, 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563,
 20 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292, wherein the antibody was produced using a short isolated antigenic peptide comprising the at least 5 consecutive amino acids set forth in the any one of SEQ ID NOS. 704-712, 731-743, 774-777, 803-806, 821-824, 876-879, 890-916, 942-949, 965-970, 985-988, 994-1009,
 25 1014-1020, 1025-1028, 1044-1048, 1053-1056, 1073-1086, 1114-1123, 1152-1160, 1173-1178, 1188-1197, 1210-1227, 1232-1244, 1258-1270, 1280-1303, 1309-1368, 1373-1377, 1386-1389, 1394-1402, 1462-1482, 1496-1525, 1542-1549, 1557-1563, 1583-1649, 1656-1679, 1684-1688, 1693-1732, 1744-1752, 1765-1839, 1846-1854, 1855-1866, 1871-1917, 1926-1941, 1952-1955, 1960-1980, 1985-2141, 2152-2165, and 2170-2292.

30 15. A kit for the detection of antibodies against the particular GPCR of claim 5 comprising:

a) an isolated antibody according to any one of claims 7-14, and

- b) at least one of a reagent or a device for detecting the antibody.
16. An assay for the detection of a particular GPCR in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 1-5,
- b) contacting the isolated antigenic peptide with the sample under conditions suitable
5 and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific
for the particular GPCR present in the sample, to provide an antibody-bound antigenic
peptide, and
- c) detecting the antibody-bound antigenic peptide, and therefrom determining whether
the sample contains the particular GPCR.
17. The assay of claim 16 further comprising the step of binding the isolated
10 antigenic peptide or the antibody to a solid substrate.
18. The assay of claim 16 or 17 wherein the sample is an unpurified sample.
19. The assay of any one of claims 15-18 further comprising, prior to the
contacting, obtaining the sample from a human being.
20. The assay of any one of claims 15-19 wherein the assay is selected from the
15 group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a
radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay
(ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an
20 immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a
biosensor assay, and a low-light detection assay.
21. An isolated nucleic acid molecule encoding an antigenic peptide according to
any one of SEQ ID NOS. 692-2292.
22. The isolated nucleic acid molecule according to claim 21 wherein the
25 molecule encodes a naturally occurring human antigenic peptide.
23. An isolated nucleic acid molecule encoding an antigenic peptide that is at least
about 90% identical to any one of the antigenic peptides set forth in SEQ ID NOS. 692-2292.
24. The isolated nucleic acid molecule according to claim 23 wherein the
antigenic peptide is at least about 95% identical to the antigenic peptide.
25. The isolated nucleic acid molecule according to claim 23 or 24 wherein the
30 molecule encodes a naturally occurring human antigenic peptide.

26. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of SEQ ID NOS. 692-2292 to genomic DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

5 27. A method of identifying an amino acid sequence for an antigenic peptide from a candidate polypeptide sequence wherein the antigenic peptide has a length of about 5 to about 100 amino acids, the method comprising:

a) searching the candidate polypeptide sequence using a comparison window of the length, and

10 b) selecting against amino acid sequences of the length and having at least 3 characteristics selected from the group consisting of 1) at least two consecutive prolines, 2) at least two consecutive serines, 3) at least two consecutive lysines, 4) at least two consecutive arginines, 5) at least two consecutive aspartic acids, 6) at least two consecutive glutamic acids, 7) methionine, 8) tryptophan, and 9) at least five consecutive amino acids comprising
15 no charged amino acids.

28. The method of claim 27 wherein the method further comprises selecting against at least 5 of the characteristics.

29. The method of claim 27 wherein the method further comprises selecting against at least 7 of the characteristics.

20 30. The method of claim 27 wherein the method further comprises selecting against the 9 characteristics.

31. The method of any one of claims 27-30 wherein the method further comprises:

c) selecting against amino acid sequences of the length and having at least one of the following additional characteristics 1) sequences having at least 5 consecutive amino
25 acids that are identical to an alternative amino acid sequence from an alternative polypeptide that is different from the candidate polypeptide, 2) posttranslational modification sites, and 3) highly hydrophobic sequences.

32. The method of claim 31 wherein the posttranslational modification sites are phosphorylation or glycosylation sites.

30 33. The method of claim 31 or 32 wherein the method further comprises selecting against at least 2 of the additional characteristics.

34. The method of claim 31 or 32 wherein the method further comprises selecting against the 3 additional characteristics.

35. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST-type or a FAST-type analyses for the candidate polypeptide sequence.

5 36. The method of any one of claims 27-34 wherein the method further comprises performing a BLAST analysis for the candidate polypeptide sequence.

37. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 50 amino acids.

10 38. The method of any one of claims 27-36 wherein the antigenic peptide has a length from 6 amino acids to about 20 amino acids.

39. The method of any one of claims 27-36 wherein the antigenic peptide has a length of about 20 amino acids.

40. The method of any one of claims 27-39 wherein the polypeptide is a protein.

15 41. The method of any one of claims 27-40 wherein the polypeptide is a human protein.

42. The method of any one of claims 27-41 wherein the polypeptide is a naturally occurring protein.

43. An isolated antigenic peptide that is specific for the candidate polypeptide of any one of claims 27-42 that is produced according to the method of any one of claims 27-42.

20 44. An antigenic peptide that is at least about 90% identical to the isolated antigenic peptide of claim 43.

45. An isolated antigenic peptide that is an analog of the isolated antigenic peptide of claim 43.

25 46. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to at least 5 consecutive amino acids of the isolated antigenic peptide of claim 43.

30 47. An isolated antigenic peptide comprising a short antigenic amino acid sequence that is identical to or contains no more than one conservative amino acid substitution over at least 7 consecutive amino acids of the isolated antigenic peptide of claim 43.

48. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 in a sample comprising:

- a) an isolated antigenic peptide according to any one of claims 43-47 and derived from the candidate polypeptide, and
 - b) at least one of a reagent or a device for detecting the antibodies.
49. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 43, wherein the antibody was produced using the isolated antigenic peptide of claim 43.
50. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 44, wherein the antibody was produced using the isolated antigenic peptide of claim 44.
51. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 45, wherein the antibody was produced using the isolated antigenic peptide of claim 45.
52. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 46, wherein the antibody was produced using the isolated antigenic peptide of claim 46.
53. An isolated antibody specific for a candidate polypeptide comprising an amino acid sequence that is identical to the amino acid sequence of the isolated antigenic peptide of claim 47, wherein the antibody was produced using the isolated antigenic peptide of claim 47.
54. The isolated antibody of any one of claims 49-53 wherein the antibody has high specificity and high affinity for the candidate polypeptide.
55. A kit for the detection of antibodies against the candidate polypeptide of any one of claims 43-47 comprising:
- a) an isolated antibody according to any one of claims 49-53, and
 - b) at least one of a reagent or a device for detecting the antibody.
56. An assay for the detection of a candidate polypeptide in a sample, comprising:
- a) providing an isolated antigenic peptide according to any one of claims 43-47,
 - b) contacting the isolated antigenic peptide with the sample under conditions suitable and for a time sufficient for the antigenic peptide to bind to one or more antibodies specific for the candidate polypeptide present in the sample, to provide an antibody-bound antigenic peptide, and
 - c) detecting the antibody-bound antigenic peptide, and therefrom determining whether the sample contains the candidate polypeptide.

57. The assay of claim 56 further comprising the step of binding the isolated antigenic peptide or the antibody to a solid substrate.

58. The assay of claim 56 or 57 wherein the sample is an unpurified sample.

59. The assay of any one of claims 56-58 further comprising, prior to the
5 contacting, obtaining the sample from a human being.

60. The assay of any one of claims 56-59 wherein the assay is selected from the group consisting of a countercurrent immuno-electrophoresis (CIEP) assay, a radioimmunoassay, a radioimmunoprecipitation, an enzyme-linked immuno-sorbent assay (ELISA), a dot blot assay, an inhibition or competition assay, a sandwich assay, an
10 immunostick (dip-stick) assays, a simultaneous assay, an immunochromatographic assay, an immunofiltration assay, a latex bead agglutination assay, an immunofluorescent assay, a biosensor assay, and a low-light detection assay.

61. An isolated nucleic acid molecule encoding an antigenic peptide according to any one of claims 43-47.

15 62. The isolated nucleic acid molecule according to claim 61 wherein the molecule encodes a naturally occurring human antigenic peptide.

63. An isolated nucleic acid molecule encoding an antigenic peptide that is at least about 90% identical to any one of the antigenic peptides set forth in claims 43-47.

64. The isolated nucleic acid molecule according to claim 63 wherein the
20 antigenic peptide is at least about 95% identical to the antigenic peptide.

65. The isolated nucleic acid molecule according to claim 63 or 64 wherein the molecule encodes a naturally occurring human antigenic peptide.

66. A process for producing an isolated polynucleotide comprising hybridizing a nucleotide encoding an antigenic peptide according to any one of claims 43-47 to genomic
25 DNA under highly stringent conditions and isolating the polynucleotide detected with the nucleotide.

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	SpeciesName
526	160397	Latrophilin-2	NP_036434.1	<p>MVSSGCRMRS LWFIIIVISL PNTEGFSRAA LPFGLVRREL SCEGYSIDLK CPCSDVIMIE P</p> <p>SANYGRITDDK ICDAADPFQME NTDICYLPDAF KIMTQRCNNR TQCIIVVTGSD</p> <p>VFPDPCPGTY KYLEVQYECV PYIFVCPGTL KAIVDSPCIY EAEQKAGAWC</p> <p>KDPLQAADKI YFMPWTPYRT DTLEYASLE DFQNSRQITTT YKLPNRVDGT</p> <p>GFVVYDGAVF FNKERTRNIV KFDLRTRIKS GEAINYANY HDTSPYRWGG</p> <p>KTDIDLAVDE NGLWVIYATE QNNGMIVISQ LNPYTLRFEA TWETVYDKRA</p> <p>ASNAFMICGV LYVVRVYQD NESETGKNSI DYINTRLNR GEYVDVFPFN</p> <p>QYQYIAADV NPRDNQLYVW NNFILRYSL EFGPPDPAQV PTTAVITISS</p> <p>AELFKTIIST TSTTSQKQPM STTVAGSQEG SKGTKPPAV STTKIPPITN IFPLPERFCE</p> <p>ALDSKGIKWP QTQRGMMAVER PCPKGTRGTA SYLCMISTGT WNPKGPDLSN</p> <p>CTSHWVNQLA QKIRSGENAA SLANELAKHT KGPVFAGDVS SSVRLMEQLV</p> <p>DILDAQLQEL KPSEKDSAGR SYNKAIVDTV DNLLRPEALE SWKHMSSEQ</p> <p>AHTATMLDIT LEEGAFVLAD NLEPTRVSM PTENIVLEVA VLTGEGIQD</p> <p>FKFPLGIKGA GSSIQLSANT VKQNSRNGLA KLVFITYRSL GQFLSTENAT IKLGADFIGR</p> <p>NSTIAVNSHV ISVSINKESS RVYLIDPVLV TLPHIDPDNY FNANCSFWNY</p> <p>SERTMMGYWS TQGCKLVDTN KTRITCACSH LTNFALMAH REIAYKDGTVH</p> <p>ELLLTVTWV GIVISLVCLA ICIFTFCFR GLQSDRNTIH KNLCINLFIA EFFLIGIDK</p> <p>TKYAIACPIF AGLLHFFFLA AFAWMCLEGV QLYLMLVEVF ESEYSRKKY</p> <p>YVAGYLFPAT VVGVSAAIDY KSYGTEKACW LHVDNVIWIS FIGPVTFIIL LNIIFLVITL</p> <p>CKMVKHSNTL KPDSSRLNI KSWVLGAFAL LCLLGLTWSF GLLFINEETI</p> <p>VMAYLFTFN AFQGVFIFF HCALQKKVRK EYKGCFRHSY CCGGLPTESP</p> <p>HSSVKASTTR TSARYSSGTQ SRURRMWNTD VRKQSESSFI SGDINSTSL</p> <p>NQGHSLNNAR DTSAMDITPL NGFNNSYSYL HKGDYNDVSQ VVDCGLSLND</p> <p>TAFKMIISE LVHNNLRGSS KTHNLELTLP VKPVIIGSSS EDDAIVADAS</p> <p>SLMHSNDNPL ELHHKELEAP LIPQRTHSLL YQPQKKVKSE GTDSYVSQLT</p> <p>AEAEADHLQSP NRDSLVTSMPL NLRDSPYTES SPDMEEDLSP SRRSENEIDY</p> <p>YKSNPNIAG HQLQMCYQIS RGNSDGYIIP INKEGCIPEG DVREGQMQLV TSL</p> <p>ccgcggctgag gagacagcga gccacagctc ggggltgtt gcaagagcca cgcgcgggggc tggggcgagt ggcgcgacg</p> <p>gctgaaggct ggcctctcga accttgaaga gccgcctcgc tgaagagcca gggacagggga gaccggcgc atggcagagc</p> <p>ggcgcccccgc ccgctgcgcc gggccggccc ggcctgcctc ggcctgcctc ggcgcggggc tgcctctgcg cgtccatgga</p> <p>gcagcgggaa gggcgaaact ccggagcgcc gcgtccctgc ggcctgcctc ggcgcggggc acatcgagagc gcaagcgagc</p> <p>accgcggagg aagagacccc cgtccagccc cgcagcgccc cgcgcggggc ggcgcggggc ggcgcggggc ggcgcggg</p> <p>gagcagcgcc gcggcgagagc ccggcgcgagg agcgcgcccgc agcaatgcgc gggcccgctag ggcctgcctc cttcctgcc</p> <p>ctggggctgc tcggctgcgc cgggcccagc ggcgcggcgc cgcctctc cgcgcggccc ggcgcctcgc acggcgaccg</p> <p>tcgggtggac tgcctcgga agggcgtag ggcctgcgc ggcgcggcga ggcctcgc cgcctcgc gataatcga</p> <p>tgaacaacat tactcagtg ccagaagtg catttaaga cttctctt ctgaagagc ggcctcgc ccaagcgctg ggcgcagc cttcttta</p> <p>tcacccaaa ggcctgctc ggggtgaag aactcaaatg tcaacgctc cagataatc agttagaaac agtacccagt</p> <p>gaagccattc gaggcgtag tgccttcag tcttgcgt tagatgcaa ccaataatc tcagtcocgc aggcacagtt tgaaggact</p>	P	Homo sapiens
527	160411	G Protein-Coupled Receptor GPR48	NM_018490		A	Homo sapiens

[illegible]

528	160411	G Protein- Coupled Receptor GPR48	NP_060960.1	P	Homo sapiens
<p>atgttattaa taaaataaga agaaagaaga alaaagctta gtccgtgctc ttataaattt aaaaaattt ctgtattccc atctaaggc ttaagcccta ttactgggtg gtagtctaaa gtalaaatg ttcaatag ttttgaaaca gtgtgctaaa tcaatagca acccactggc ataattagta ttctgaatat actaataaaa tcaagctaga ttgcaattta ataatraac tgracatact gtgcataata tgaattttta tcttatgaa attattttta gaacacaagt tgggaatgt ggtctctgt cattctgt aathaagct acctoctaaa ctatagggc tgccagtagc agacigttaa atgtgtgtt atatacttt tgcattgtaa atagicttg ttgacattg tcaagttaa aaaaacagaa tcttgtaata tcaaaatcat gtagttgta taaatgtgg gaaggattta ttacaggt gtgttaatt tgaaggcca actatttaca agtttataaa atgtctatca tglattttta cacatctgt aaalattaaa tcaaacgt gtaagaact cctaattaaa aggttttc caaaattcag gttattgaaa attttcatt ttattcatt aaaaactaga ataacagata lataaagggt ttaattcttg tgcataagg tatgaatac aataattac tcaagtgt gaattattaa agttictaga agcaaaaaa a MPGPLGLLCTF LALGILGSAG PSGAAPPLCA APCSCDGD RR VDCSGKGLTA VPEGLSAFTQ ALDISMNNIT QLPEDAFKNF PFLEELQLAG NDLSFIHPKA LSGLKELKVL TLQNNQLKTV PSEAIRGLSA LQSLRLDANH ITSVPEDSFE GLVQLRHL WL DDNSLTEPVV HPLSNLPTLQ ALTLALNKIS SIPDFAFTNL SSLVVLHLHN NKIRGLSQHC FDGLDNLETL DLSYNNLGEF PQAIAKARPSL KELGFHSNSI SVIPDGAFDG NPLLRTHLY DNPLSFVGN SASHNLSDLHS LVIRGASMVQ QFPNLGTGVH LESLTLTGTK ISSPNNLC EQKMLRTL DL SYNNIRDLPS FNGCHALEEI SIQRNQIQI KEGTFQGLIS LRLLDSRNL IEHISRAFA TLGPITNLDV SFNELTSFT EGPNGLNQLK LVGNFKLKEA LAAKDFVNLR SLSPVYAYQC CAFWGCDSYA NLNTEDNSLQ DHSVAQEKGT ADAANVTSL ENEHSQIII HCTPSTGAFK PCEYLLGSWM IRLTVWFIF VALFFNLLV LTTFASCTSL PSSKLFIGLI SVSNLFMGIY TGLITFLDAV SWGRFAEFGI WWETGSGCKV AGFLAVFESSE SAJLLMLAT VERSLSAKDI MKNGKSNHLK QFRVAALSAF LGATVAGCFP LFRGEYSAS PLCLPFPTGE TPSLGFTVTL VLLNSLAFLL MAVITYKLYC NLEKEDLSEN SQSSMIKHVA WLIFTNClFF CPVAFFSFAP LITAISISPE IMKSVTLIFF PLPACLNPLV YVFFNPKFKE DWKLLKRRVT KKS GSVSVSI SSQGGCLEQD FYDDCGMYSH LQGNLTVDCD CESFLLTKPV SKHLIKSHS CPALAVASCQ RPEGYWSDCG TQSAHSDYAD BEDSFVSDSS DQVQACGRAC FYQSRGFPLV RYAYNLPRVK D</p>					
529	160435	LS160435 Receptor	AX147830	A	Homo sapiens
<p>aacttgaagg gcaagcgtct gccgccacg aacactct caagcacttt gtagtgaacc ggccttgcag ctgggtggctg gcccccgag tccccggctc tgaggcacgg ccgtcgactt aagcgttgca tctgtttacc tggagacct ctgagctctc acctgtact tctgccgtct cttctgcaca gaggccggc gaggacacct ctagtgatga ggtcccgaaac agcacccggc cggacaacgc gacgtctgag atgtctggga accggcgat cgggtggcc ctgcccgtgg tglactcgt ggtggcgccg gtcagcatcc cgggcaacct ctctctctg tgggtgctgt gccggcgcat gggggccaga tccccgtcg tcatctcat gatcaacctg agcgtcacgg acctgatgt ggcacggctg ttgctttcc aaatttacia ccaattgcaac cggccacct gggttttcgg ggtgtgtctt tgcacgtgg tgcacggctg cttaacga aacatgatt ccagcatct caccatgacc tgtatcagcg tggagcgctt cctgggggct cgttacccg tcaagctcaa ggcctggcgcc cggcgtgtt acggtggctg cgtgtgtgca gggacctggc tgcgtctct gacctccctg tccccgtctg ccgcacoga tctacttac ccgggtgacg ccctggggcat calcaacctg ttgacgttc tcaagtgagc gatgtcccc agcgtggcca tgtgggocgt gttctcttc accatctica tctgtctgt cctatccc ttctgtgata ccgtggcttg ttacacggc accatctca agcgtgtgct cagggaggag gcgcacacggcc gggagcagcg gaggcgccctg ccgcgggtgt cttgtggcc ttgtcaact</p>					

530	160435	LS160435 Receptor	LR80	<p>gcttcgcccc caacaacttc gctctctcgg cgcacatcgt gtagccgctgg ttctacggcca agagctacta ccatcgcttac aagctcacgc tctgtctcag ctgcctcaac aactgctcgg acccgcttgg taattattt gctgtccaggg aattccagct ggccttgcgg gaaatttgg gctgcggccgg gctgtccaga gacacctgg acacgctcgg cgaagagcttc ttctccgcca gtagccacgtc cgtgcgctcc gaggccggcg cgcacctga agggatggag gtagccacca ggcggcgctt ccaagagggcag gtagagtggt tctgagctcc gggggccag ctgtgagagc cggggcgctg cagagggccg gctgtggagag cgtgtgagaggg ccatcgctggc agaggttcag gtagacagc tgcgtgtc cagggcactg cagagggccg ctctactcag gtagagagaa caagcaagc cagcagcgc ccagggcactg cagagggcacc gtagagagag ggtctccagg ctctactcag gtagagagag gtagagagag cccggctaat ttgtattt acaggggctt tgtatctt cagaggggct ctctgctt ctgtgtcag gtagagagag gtagagagag cccggctaat ttgtattt ttttttag agctggggctg tcccccca gctctttag cactctac acctgtccat accggagggat gtagattcaa ccagccccc cgcctacccg actcggttc tggatctt ctgtggggcga actggggcc accgctccac cgtctcgggt tgcgtcacat gctctttag acctgttcc ataccgggg atggattatc aaocaggcccc accgctccac cgtctcgggt tctggatct ctctggggc gtagctggag cccattccc agctcttc ctgtgtgaca tctgtctta gttgtgttc tggctctc cattcttc cagggggtt ggtctcga ggcgggtgca cgcggaaatt tctgttatt tcatcaggg gtagctgtgt tctgtgtgt ggagtttc tttagagga ggcctggggg ctctggcag tcatctact tccgtgcca ctccccca caccacacac ccctgtgc cgaattc</p>	P	Homo sapiens
531	160889	Platelet Activating Receptor Homolog (H963)	NM_013308	<p>MQVPNSTGPD NATLQMLRNP AIAVALPVVY SLVAAVSIPG NLFSLWVLCR RMGPRSPSVI FMINLSVTDL MLASVLPQI YYHCNRHHWV FGVLLCNVVT VAFYANMYSS ILTMTCSISVE RFLGVLYPLS SKRWRRRRYA VAACAGTWLL LLTALSPLAR TDLTPVHAL GIITCFDVLK WTMPLPSAMW AVFLFTFIL LFLIPFVITV ACYTATILKL RTEAHGRE QRRRAVGLAA VLLAFVTCF APNNFVLLAH IVSRLFYGKS YYHVYKLTLC LSCLNNCLDP FVYFASREF QLRLREYLG RRVPRDILDT RRESLFSART TSVRSEAGAH PEGMEGATRP GLQRQESVF gaattcggcc aagagggct atgtctct ggaagctgc agcaagctt gctgaggctc acagaagata gcccaggtt tttggaggg tttaagtg gattctgaga tcatgagcag ttagctggaa tctgtgtt atacttacc agctacaca cctgtgagc tagaaatt ttcttca aagcagc atcttact tcccaaga tgaacaacag tctgtctc tgccttcc ataaagatct ggagccatc acgatttt ttattagt ttctgtt ggaatttg ggaatttg tgcacccgg gcttttacc agaagaatc gaatcacagg tctgtgaga tcatctat taattgtt acagccgatt tctgttacc tctgttacc cagtgaaaa ttgtgtga cttgggttg gcatctgga agctgagat attcactgc caagtacag cctgttacc ctatcaat atgtattat caattat cttagcatt gtcagcatg accgtgtt tcatgtgaca cagagctgca agatcaccg aatacaagaa cccggattg ccaaatgat atcaaccgtt gttggctaa tggctctt talatggg ccaaataga tgaatccat caaagacatc aaggaagaat caaatgggg ttgtatggag ttaaaagg aattggag aattggat tgcctgaca attcatatg ttagcaata tttaaat tctagccat catttata tcaattgc ttgaattg acagcttacc agaaacaag alaaagaaa ttaccaaat gtagaaaaag ctctacaa catattta gtagcaagg gctacatc atgtgtt cttaccaca ttgtccgat cccgttacc ctacgccaga cagaagical aactgattg tcaaccagga ttcatctt caaagccaa gaggctacac tctctggc tctgtgaaac ctgtgttg atctatct gtagtacc ctctcaaaag catcggctc aagggctc gtagcttgg cctacccaa agagaccaag gctcagaag aaaaataag atgtgaaaat atgtcataa agacaggat ttgtgtc ccaattcgg cttacttga ccaataat aattatgt tgaagata aaaaaaaa aaaaaggcc gc</p>	A	Homo sapiens
532	160889	Platelet Activating Receptor	NP_037440.1	<p>MTNSSFFCPV YKDLFPFTYF FYLVFLVGII GSCFATWAFI QKNTNHRCSV IYLLNLTAD FLTLALPVK IVVDLGVAPW KLKIFHCQVT ACLYNNMYL SIIFLAFVSI DRCLQLTHSC KIYRIQPCF AKMISTVVWL MVLLMVPNM MIPIKDIKEK</p>	P	Homo sapiens

533	161024	Protein A	NM_019858	Homolog (H963)
533	161024	Protein A	NM_019858	Homolog (H963)

[illegible]

542	161251	Purinergic Receptor P2Y10	NP_055314.1	<p>accctccgg atttactt acatcagcca ccactggcct ttccagagag cccttgcct gctctgcttc taactgaagt atctcaacat gtaigccagc atttctcc tgaagtgcat cagcttcaca aggttgcttt ttctctcaca gccctcagg gccagagact ggaagcgtag gtacagtg ggcacagtg ctgccatctg gactggttg gggactgct gttgccatt tccatcttg agaaacacag acttaaacaa caacaagtcc tgccttgctg atcttgata caagcaaatg aatgacgttg cgttgctcgg gatgattaca gttctgagc ttgcaggatt tgtatocca gtgatcata tgcgaltggtg taacttgaaa actactaat ccttgagaca gccaccaalg gcttccaag ggatcagta gaggcagaaa gcatcgogga tgggttcat gttgctgca gttcttca tctgtcaca ccttttgc ctggtcctg tttttacc catgtaag gaaacatca ttgcagttg tccgtgtc cgaatgcac tgaattoca ccttttgc ctggtcctg caagtctg ctgcttttg gtaaccaic ttattact tatgcttca gatttctg accaatat ccgccatggc agttctgta ccgctcccg cctcagagc aaggagtg gttacat gatggctaa MANLDKYTET FKMGSNSTST AEYCNVTNV KFQYSLYATT YLIFIPGILL P Homo sapiens</p> <p>ANSAALWVLC RFISKKNKAI IFMINLSVAD LAHVLSPLR IYYVISHHWP FORALCLLCF YLYLNMYAS ICFLTCLISQ RCFFLLKPER ARDWKRRYDV GISAAIWVV GTACLPFIL RSTDNNKS CFADLGKQM NAVALVGMIT VAELAGFVP VIIAWCTWK TTISLRQPPM AFQGISERQK ALRMVFMCAA VFFICFTPYH INEIFYTMVK ETIUSCPVV RIALYFHPFC LCLASLCLL DPILYYFMAS EFRDQLSRHG SSVTRSLMS KESGSSMIG MATTSATSTV NTSSLATMT TNFTSLTST VTTIASLVPS TNSSEDDYDD P Equine herpesvirus 2</p> <p>LDDVDEESA PCYKSDTTRL AAQVVPALYL LVFLGLLGN ILVVIIVRY MKIKNLTNML LLNLASDLL FLTLFPWMH YIGMYHDWTF GISLCKLLRG VCYMSLYSQV FCILLTVDR YLA VVYAVTA LRFRVTTCGI VTCVCTWFLA GLLSLPEFFF HGHQDDNGRV QCDPYPEMS TNVWRRAHVA KVMLSLILP LLIMAVCVYV IIRLLRRPS KKKYKAIRLI FVMVAYFVF WTPYNIVLL STFHATLLNL QCALSSNLDL ALLITKTWAY THCCINPVY AFVGEKFRRH LYHFFHTYVA IYLCYIPFL SGDGEKGP TRI</p>
543	161293	G Protein- Coupled Receptor Ls161293 [Herpes virus]	NP_042597.1	<p>gcgagaacc cgaatgacc gggccacggc ggcctccoga cctgcgcgt cctgcggggc gcgctggggt ccgggcacac gggctlgccc cccatggct cggccgagg gaaactgagc gcgtggccgg gcgggggggt gcggccggc gcggcgtga ggaaactgac ctctcccg gccccgaccc cgtcccgct cccggccccc tgggtggacc cctcgccggc ccccgccccc gcggaccgt tctcgacc gccctggccc gttgcgtct ggtcgtctgc ctacggcgcc gttgtggccc tggcgggtgt cggcaacctc gttgtgact ggaatggtgt ggcocacaa cgaatgggca cctctctc gttgaacctgg ccttcggca cggcgccalg gccgcgtca acgcgctgt caacttcat tacgcgtgc acggagagtg gtaactggc gccaaact ggcgcttoca gaacttct cccatcac cgtgttgc cagcatctac tccatgacgg ccatggcgt ggacagat acggccatt ttgacccct gaagccagg cgtctgcca cggccaccc gatactt ggaagcat ggatctggc atttactt gatttctc agttctgta ttccaaatc aaagtatgc caggccgtac tcttgctac gttcagtg cagaagggtc aaggcaac ttacatgacc aatgctgt catgctct gttactgt tttctgt catcaltggc atcaactaca ccatagtttg aatcagctc tggggagggg agatccagg agacacctgc gaacagttacc agggagcagct gaaggccaaag cggaaagggt taaaatgat gatcatgt gttgtgact ttgccatgt cttgtccgc taitcatct acttact caccgccatc tatcagcag tgaacagggt gaalatcatc cagcaggtct acctggccag ctctggctg gccatgagct cgaacatgta caacccatc atctactgt gttgaataa ggaatttct gttgcttca agaggggctt ccgctgtgtc ctttacc acgtctcag ctacgagag ctggagctca aagccaccag gctccacca atggcagaga ggcagctata cacagtga agaatgtagt ccatgagcgt ggtattgac tcaacagatg ggagacagtg caggtcagtt caccagaa gaaggagcag cagagacgta</p>
544	177147	Neuromedin K Receptor-Like (NK-4R)	NM_006679	<p>gcgagaacc cgaatgacc gggccacggc ggcctccoga cctgcgcgt cctgcggggc gcgctggggt ccgggcacac gggctlgccc cccatggct cggccgagg gaaactgagc gcgtggccgg gcgggggggt gcggccggc gcggcgtga ggaaactgac ctctcccg gccccgaccc cgtcccgct cccggccccc tgggtggacc cctcgccggc ccccgccccc gcggaccgt tctcgacc gccctggccc gttgcgtct ggtcgtctgc ctacggcgcc gttgtggccc tggcgggtgt cggcaacctc gttgtgact ggaatggtgt ggcocacaa cgaatgggca cctctctc gttgaacctgg ccttcggca cggcgccalg gccgcgtca acgcgctgt caacttcat tacgcgtgc acggagagtg gtaactggc gccaaact ggcgcttoca gaacttct cccatcac cgtgttgc cagcatctac tccatgacgg ccatggcgt ggacagat acggccatt ttgacccct gaagccagg cgtctgcca cggccaccc gatactt ggaagcat ggatctggc atttactt gatttctc agttctgta ttccaaatc aaagtatgc caggccgtac tcttgctac gttcagtg cagaagggtc aaggcaac ttacatgacc aatgctgt catgctct gttactgt tttctgt catcaltggc atcaactaca ccatagtttg aatcagctc tggggagggg agatccagg agacacctgc gaacagttacc agggagcagct gaaggccaaag cggaaagggt taaaatgat gatcatgt gttgtgact ttgccatgt cttgtccgc taitcatct acttact caccgccatc tatcagcag tgaacagggt gaalatcatc cagcaggtct acctggccag ctctggctg gccatgagct cgaacatgta caacccatc atctactgt gttgaataa ggaatttct gttgcttca agaggggctt ccgctgtgtc ctttacc acgtctcag ctacgagag ctggagctca aagccaccag gctccacca atggcagaga ggcagctata cacagtga agaatgtagt ccatgagcgt ggtattgac tcaacagatg ggagacagtg caggtcagtt caccagaa gaaggagcag cagagacgta</p>

88ctccaaig tctgctcccg caggaacaccc aagttccact ccaccacagc cagcttcgig agctctcccc acalgctggg
 ggaaggaaggg tctgattc tctgctggg cagggccact ccaggcacc cttccctg cactgctgct gctctcact cctgggaag
 ggaaggaagc ttttaagca gctacgctta caataagca gattggcact aaataaaca aaataactac taagataag gctctccccc
 caaaaaagga acaaaagggg ctttaagggg atggcttgaa aacttaaat taataatag atacaacaaca aaataatagat
 ccgaagaaala ttataaagg gtcaggttt gctatttaa aagtcactg gcaattgg gacacigata ggtagtttt ttccaaaat
 attaaagtt aaataatatt actgicaggg aaggaagggcc aggtttcca ttacagagca taagatggaa aagttaaatg actatttc
 ttacaatgg gtagaatt taactcaaa aacttaaat taacgaatg tcaagaaac ctatttga ccatacaat ttcaagagc
 atttaaatga aaggggaacc taatacaac cactagggct atcaaatg cttctcta ttttttcg agaaaatggg ttcaagggaa
 aaaaatggg cttgattg tactattt aaalgccag ttataatga gtttaaatg gtaaccttaaa agtcaacaaca aaatccat
 gaacctat tttaagaa ttgttctaa gtagggtaag gtaagagca taataatatt ttctgagag ggaaggaagga atcccatgg
 tctctgaac tggctgctag ctttaaggc ctttaagggc aggaacccc acagctccac gtagcccaag aggtgggagcag gaacacccc
 cagctccag gcaagtttt ttccctgta cccagcaaa agttccagac agtcactta tcaacat ctggctcccc tctcttca
 tcaaggaaggg aggtgggagc tgggggaaggg atcaagaaag gctgtagaa aatctgaa ggaagaaagtt gtaagaaat
 tgaagcaaa taagctgga gaaatga taatgggg aaatacagc aggaaggaag aagttgggct aactttga
 aagtagtaac atagttgggg tcaacgta gtagggagc aaataac cctgttcca cacaagagcc gtagggctct
 gcatagga cctgtgccc tcaagaaaggg aggggaagga ggaattgg ttactaat agtaattt ttgaagacca taatgggag
 gttttatgg ctaactgg aagcagtaac cttcttaa attaggaata ctgtcaatc gctgaagaa atcaacaacc ttctggaaat
 cttaatgg taataaat atgttaggg ttgaagaa gcttaaaat atactta acatttatt catggctag
 cctctctag gtaggaac aaataact ttcaagaa gcataaagc aatataca gtagaagga tggctatgg ttacccgat
 attaatcc caactggg ttggagccaa agtcagaaat attaggtt tagcttaac agtcaaca calgaattg agtgaaat
 ctttaatga cacaataaa cacaacag tagggagc aaataatg cagacata caaccagcca atgaagta
 caatatcaag aagtaaat taataatc taatacag taaggggct ttccaggggt ctagaata accataaaa atctgggaaa
 catggggca ctttttag taataaat taataat tagaatga ttgttgaat gtttaaat gtagggggagc ttggcttca
 aatttcaat agtcagccac taataagga taactgaat acatctct gacttaca gtcattacg aatcagc taigggggtt
 cttaagaaa atagtagct taatctgt ttgttggg aat tttttga gtagaattg ttgttctgg cttaagggc
 atcactct ctgtagggc agaaatagc aggtccaggt cactctct aaatagta gaaagctga cactttac tcaatgca
 tgaattaa actaagatt ataatata atttcaag tcaagaaatg taagcaata cagtaaatg aatgaaggg gctaaaggg
 agccctggg tctgaattc gaaagcaaaa agtaagaaat gtagccagc cagggggct tagggggct cctgggaggt aaatctagc
 caggtttc acattggcca aggttagga gcaattggcc ccaaatggc tcaaccaa taataacg caggtccatc ttctatta
 ttgcaagca aacactac aggaacagga gcaagtaggg acacactt aggtttat aaatttaga cagcagcaaca aaatctaaa
 ctatggg aaaaatgg gaaagaaag cctggctgg tttaaat tctcttt gaaagaaat gcttagtaaaa caacaaca
 ttgaattct attattgg accgggcaaa agggagcga gtagggctggc gggggaaggt tttaagcaaa cggggctgg
 tggagccag ttagcttt tttagggg tcaatgg gtaggaat ttacactcc aggtgacat tctggagccag aagccacat
 lacgtttca ggaagtaaat ctgaataat ctgcaaaa gaaatctggc caacttcaa gttccggccg ccttaggaaggg
 cacaacaagc accaaggaagc ttgtagtaaa accatacaaa cacaataaa atgaataaaa caacacatgg taactcagaa
 ttgggattgg atttttaa tgcagaaat cccagaaac ctgtaatcag ttgttgaat atgtccat taatacaaa gcaagggga
 ttaaaacat tcaactaaca gtaacatct gtaggaat ttccattg aggtggccag aaggttaagga aatcaagcat aacattggcc
 atgaaggaaaa aatgtaac aatctacgg gtagggcaac aggggaaggg aatcattt aatggagctgg taacaagga
 ttattggg gatttaaat acattcag aatccggc gcaagaaat caalataa aaattttag gtagggcatal aagttatt
 caagttgg aaataatct gtaggaagc aaatccat ctctgata tgggcaag ttgggaag tttaatcca atgtttat

545	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	<p>ttaaaatatt taaaatcat atgaaaat</p> <p>MASPAAGNL SA WPGWGWPPPA ALRNLTSPPA PTASPPAPS WTPSPRPSPA HPFLQPPWAV ALWSLAYGAV VAVAVLGNLV VIWVLAHNR MRTVTNSFLV NLAFADAAMA ALNALVNFY ALHGEWYFGA NYCRRQNFPP ITAVFASIYS MTAIAVDRYM AIIDPLKPRL SATATRIVIG SIWILAFLLA FPQCLYSKIK VMPGRTLCTV QWPEGSRQHF TYHMIVLV YCFPLLMGI TYTIVGHTLW GGEIPGDTCD KYQEQLKAKR KVVKNMIVV VFAICWLPY HIYFILTAIY QQLNRWKYIQ QVYLASFVLA MSSTMNPNII YCCLNKRFRG GFKRAFRWCP FIHVSSYDEL ELKATRLHPM RQSSLYTVTR MESMSVVVFDSD NKGDSARSSH QKRGTTTRDVG SNVCSRRNSK STSTTASFVS SSHMSVEEGS</p> <p>atggatgaaa caggaaaatc gacagatct tctgccacat gccatgacac tatgtagac ttcggcaac aagtgtatc cactgtgac tctatgatc ctgtgttag ctcttggc aatggcttg tgcctatgt cctcaaaaa accatcaca agaatgacgc ctccaagta tacaigattt attagcagt agcagatcta ctgtgtgt gacacatgc tctccgtgt gctattatg ttcaaaaagg cattggctc tttggtagc tctgtgccc cctcagcacc tatgtctgt atgtcaacct ctatgtgac atctctta tgacagccat gagcttttc cgtgtcatgt caatgttt tocatgtcag aacattaat tggttacaca gaaaaagcc aggttttgt gtttaggtat ttggatttt gtgatttga ccagttccc atttcaatg gccaaaccac aaaaagatga gaaaaataat accaagtgt ttgagcccc acaagacaat caaaacaaaa aicatgttt ggctgtgcat tatgtgtcat tttgttgg cttaatc cctttgtt ttaaatgt ctgtacaca atgatcatt tgccttact aaaaaatca atgaaaaaaa atcgtcaca gctataaaa gctatagtaa tgaatcgtt cgtgacogct gcttttttag tcatgtcat attcaatc atcaacgt aatcaccgt tttgtctgt ctgcatcaca ttgtgtctt gacctctcc tatattct tgatctgtc ctagaatgc agaatgccc ggtcatalacc ttgtctctgt ctgcatcaca ttgtgtctt gacctctcc tatattct ttctgggggt aactttaga aagaagctgc tacaacaga aagcattct tgcacagct gacttatga cccagaaaaga agggctctt gccagaaaaa ggagaaagaa tatgtaaatg atag</p> <p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLVYLK TYHKSAFQV YMINLA VADL LCVCTPLRV VYVHKGIWL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVCGIWF VIL-TSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVH YVSLFVGFII PFVIIVCYT MILTLKKS MKKNLSHKK AIGMMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKA SLPEK GEEICKV</p> <p>ccacgcgtcc gccggctgtca cgtgtgcacc ggacagcgtgt caggctccgg ctctctccc cctgtccac gctgcagcag ccgcgtgccc ggcccccactg ggctcggatc cggcccgggc cccctcggca ccgcctgtct tggccccggc cccggccccg cggaccatgc gcttggcggcc cccaggggaa acccgaccgg gccaaaggcc cgtacagcgc aggtctccgg gccggggccc ctcggggccc ccacgtctc cgcggcggcc ctggccccgg tcccgagcc gtcgtgagcc gtcgtgagcc aggtcggccat ggagcgcgcgc ccggccgacg ggccgcgtgaa cgtctcgggg gctcggggcc gctgagcggc ggccggggcc gggtcggccg gcttctggc agcctggacc gctgtgtctgg ccgcgtcat ggctgtctc atcgtggcca cgtgtgtggc caacgcgtct gtaicgtctg ccttctggc cgactcggc ctcggcacc agaaacact ctctctct aacctggca tctcgtgca cctcgtggc gcttctgca tccactgta tttacactac gttctgacag gccgtgtggac ctggggccgg ggctctgtca agctgtgtgt gttgtgtgtac taactgtgt gcaactctc tgccttcaac atcgtgtctca ttagtaca ccgcttctgt tgggtcacc ggagcgtgtc ataccggggc cagcaggggt acacgggg ggacagtgccgg aagatgtct tgggtgtgt gctgggtctc ctgtgtacg gaccagccat cctgagctgg gtagacctgt cggggggcag ctccatccc ggaggggcact gctatggcca gttcttctac</p>	P	Homo sapiens
546	177168	Cysteinyl Leukotriene CYSLTI Receptor	NM_006639	<p>atggatgaaa caggaaaatc gacagatct tctgccacat gccatgacac tatgtagac ttcggcaac aagtgtatc cactgtgac tctatgatc ctgtgttag ctcttggc aatggcttg tgcctatgt cctcaaaaa accatcaca agaatgacgc ctccaagta tacaigattt attagcagt agcagatcta ctgtgtgt gacacatgc tctccgtgt gctattatg ttcaaaaagg cattggctc tttggtagc tctgtgccc cctcagcacc tatgtctgt atgtcaacct ctatgtgac atctctta tgacagccat gagcttttc cgtgtcatgt caatgttt tocatgtcag aacattaat tggttacaca gaaaaagcc aggttttgt gtttaggtat ttggatttt gtgatttga ccagttccc atttcaatg gccaaaccac aaaaagatga gaaaaataat accaagtgt ttgagcccc acaagacaat caaaacaaaa aicatgttt ggctgtgcat tatgtgtcat tttgttgg cttaatc cctttgtt ttaaatgt ctgtacaca atgatcatt tgccttact aaaaaatca atgaaaaaaa atcgtcaca gctataaaa gctatagtaa tgaatcgtt cgtgacogct gcttttttag tcatgtcat attcaatc atcaacgt aatcaccgt tttgtctgt ctgcatcaca ttgtgtctt gacctctcc tatattct tgatctgtc ctagaatgc agaatgccc ggtcatalacc ttgtctctgt ctgcatcaca ttgtgtctt gacctctcc tatattct ttctgggggt aactttaga aagaagctgc tacaacaga aagcattct tgcacagct gacttatga cccagaaaaga agggctctt gccagaaaaa ggagaaagaa tatgtaaatg atag</p> <p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLVYLK TYHKSAFQV YMINLA VADL LCVCTPLRV VYVHKGIWL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVCGIWF VIL-TSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVH YVSLFVGFII PFVIIVCYT MILTLKKS MKKNLSHKK AIGMMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKA SLPEK GEEICKV</p> <p>ccacgcgtcc gccggctgtca cgtgtgcacc ggacagcgtgt caggctccgg ctctctccc cctgtccac gctgcagcag ccgcgtgccc ggcccccactg ggctcggatc cggcccgggc cccctcggca ccgcctgtct tggccccggc cccggccccg cggaccatgc gcttggcggcc cccaggggaa acccgaccgg gccaaaggcc cgtacagcgc aggtctccgg gccggggccc ctcggggccc ccacgtctc cgcggcggcc ctggccccgg tcccgagcc gtcgtgagcc gtcgtgagcc aggtcggccat ggagcgcgcgc ccggccgacg ggccgcgtgaa cgtctcgggg gctcggggcc gctgagcggc ggccggggcc gggtcggccg gcttctggc agcctggacc gctgtgtctgg ccgcgtcat ggctgtctc atcgtggcca cgtgtgtggc caacgcgtct gtaicgtctg ccttctggc cgactcggc ctcggcacc agaaacact ctctctct aacctggca tctcgtgca cctcgtggc gcttctgca tccactgta tttacactac gttctgacag gccgtgtggac ctggggccgg ggctctgtca agctgtgtgt gttgtgtgtac taactgtgt gcaactctc tgccttcaac atcgtgtctca ttagtaca ccgcttctgt tgggtcacc ggagcgtgtc ataccggggc cagcaggggt acacgggg ggacagtgccgg aagatgtct tgggtgtgt gctgggtctc ctgtgtacg gaccagccat cctgagctgg gtagacctgt cggggggcag ctccatccc ggaggggcact gctatggcca gttcttctac</p>	A	Homo sapiens
547	177168	Cysteinyl Leukotriene CYSLTI Receptor	NP_006630.1	<p>atggatgaaa caggaaaatc gacagatct tctgccacat gccatgacac tatgtagac ttcggcaac aagtgtatc cactgtgac tctatgatc ctgtgttag ctcttggc aatggcttg tgcctatgt cctcaaaaa accatcaca agaatgacgc ctccaagta tacaigattt attagcagt agcagatcta ctgtgtgt gacacatgc tctccgtgt gctattatg ttcaaaaagg cattggctc tttggtagc tctgtgccc cctcagcacc tatgtctgt atgtcaacct ctatgtgac atctctta tgacagccat gagcttttc cgtgtcatgt caatgttt tocatgtcag aacattaat tggttacaca gaaaaagcc aggttttgt gtttaggtat ttggatttt gtgatttga ccagttccc atttcaatg gccaaaccac aaaaagatga gaaaaataat accaagtgt ttgagcccc acaagacaat caaaacaaaa aicatgttt ggctgtgcat tatgtgtcat tttgttgg cttaatc cctttgtt ttaaatgt ctgtacaca atgatcatt tgccttact aaaaaatca atgaaaaaaa atcgtcaca gctataaaa gctatagtaa tgaatcgtt cgtgacogct gcttttttag tcatgtcat attcaatc atcaacgt aatcaccgt tttgtctgt ctgcatcaca ttgtgtctt gacctctcc tatattct tgatctgtc ctagaatgc agaatgccc ggtcatalacc ttgtctctgt ctgcatcaca ttgtgtctt gacctctcc tatattct ttctgggggt aactttaga aagaagctgc tacaacaga aagcattct tgcacagct gacttatga cccagaaaaga agggctctt gccagaaaaa ggagaaagaa tatgtaaatg atag</p> <p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLVYLK TYHKSAFQV YMINLA VADL LCVCTPLRV VYVHKGIWL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVCGIWF VIL-TSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVH YVSLFVGFII PFVIIVCYT MILTLKKS MKKNLSHKK AIGMMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKA SLPEK GEEICKV</p> <p>ccacgcgtcc gccggctgtca cgtgtgcacc ggacagcgtgt caggctccgg ctctctccc cctgtccac gctgcagcag ccgcgtgccc ggcccccactg ggctcggatc cggcccgggc cccctcggca ccgcctgtct tggccccggc cccggccccg cggaccatgc gcttggcggcc cccaggggaa acccgaccgg gccaaaggcc cgtacagcgc aggtctccgg gccggggccc ctcggggccc ccacgtctc cgcggcggcc ctggccccgg tcccgagcc gtcgtgagcc gtcgtgagcc aggtcggccat ggagcgcgcgc ccggccgacg ggccgcgtgaa cgtctcgggg gctcggggcc gctgagcggc ggccggggcc gggtcggccg gcttctggc agcctggacc gctgtgtctgg ccgcgtcat ggctgtctc atcgtggcca cgtgtgtggc caacgcgtct gtaicgtctg ccttctggc cgactcggc ctcggcacc agaaacact ctctctct aacctggca tctcgtgca cctcgtggc gcttctgca tccactgta tttacactac gttctgacag gccgtgtggac ctggggccgg ggctctgtca agctgtgtgt gttgtgtgtac taactgtgt gcaactctc tgccttcaac atcgtgtctca ttagtaca ccgcttctgt tgggtcacc ggagcgtgtc ataccggggc cagcaggggt acacgggg ggacagtgccgg aagatgtct tgggtgtgt gctgggtctc ctgtgtacg gaccagccat cctgagctgg gtagacctgt cggggggcag ctccatccc ggaggggcact gctatggcca gttcttctac</p>	P	Homo sapiens
548	177191	Histamine H3 Receptor	NM_007232	<p>atggatgaaa caggaaaatc gacagatct tctgccacat gccatgacac tatgtagac ttcggcaac aagtgtatc cactgtgac tctatgatc ctgtgttag ctcttggc aatggcttg tgcctatgt cctcaaaaa accatcaca agaatgacgc ctccaagta tacaigattt attagcagt agcagatcta ctgtgtgt gacacatgc tctccgtgt gctattatg ttcaaaaagg cattggctc tttggtagc tctgtgccc cctcagcacc tatgtctgt atgtcaacct ctatgtgac atctctta tgacagccat gagcttttc cgtgtcatgt caatgttt tocatgtcag aacattaat tggttacaca gaaaaagcc aggttttgt gtttaggtat ttggatttt gtgatttga ccagttccc atttcaatg gccaaaccac aaaaagatga gaaaaataat accaagtgt ttgagcccc acaagacaat caaaacaaaa aicatgttt ggctgtgcat tatgtgtcat tttgttgg cttaatc cctttgtt ttaaatgt ctgtacaca atgatcatt tgccttact aaaaaatca atgaaaaaaa atcgtcaca gctataaaa gctatagtaa tgaatcgtt cgtgacogct gcttttttag tcatgtcat attcaatc atcaacgt aatcaccgt tttgtctgt ctgcatcaca ttgtgtctt gacctctcc tatattct tgatctgtc ctagaatgc agaatgccc ggtcatalacc ttgtctctgt ctgcatcaca ttgtgtctt gacctctcc tatattct ttctgggggt aactttaga aagaagctgc tacaacaga aagcattct tgcacagct gacttatga cccagaaaaga agggctctt gccagaaaaa ggagaaagaa tatgtaaatg atag</p> <p>MDETGNLTVS SATCHDITDD FRNQVYSTLY SMISVVGFFG NGFVLVYLK TYHKSAFQV YMINLA VADL LCVCTPLRV VYVHKGIWL FGDFLCRLST YALYVNLVCS IFFMTAMSF RCIAIVFPVQ NINLVTKKA RFVCGIWF VIL-TSSPFLM AKPQKDEKNN TKCFEPQDN QTKNHVVLVH YVSLFVGFII PFVIIVCYT MILTLKKS MKKNLSHKK AIGMMVVTA AFLVSFMPYH IQRTHLHFL HNETKPCDSV LRMQKSVVIT LSLAASNCFF DPLL YFFSGG NFRKRLSTFR KHSLSSTVTV PRKKA SLPEK GEEICKV</p> <p>ccacgcgtcc gccggctgtca cgtgtgcacc ggacagcgtgt caggctccgg ctctctccc cctgtccac gctgcagcag ccgcgtgccc ggcccccactg ggctcggatc cggcccgggc cccctcggca ccgcctgtct tggccccggc cccggccccg cggaccatgc gcttggcggcc cccaggggaa acccgaccgg gccaaaggcc cgtacagcgc aggtctccgg gccggggccc ctcggggccc ccacgtctc cgcggcggcc ctggccccgg tcccgagcc gtcgtgagcc gtcgtgagcc aggtcggccat ggagcgcgcgc ccggccgacg ggccgcgtgaa cgtctcgggg gctcggggcc gctgagcggc ggccggggcc gggtcggccg gcttctggc agcctggacc gctgtgtctgg ccgcgtcat ggctgtctc atcgtggcca cgtgtgtggc caacgcgtct gtaicgtctg ccttctggc cgactcggc ctcggcacc agaaacact ctctctct aacctggca tctcgtgca cctcgtggc gcttctgca tccactgta tttacactac gttctgacag gccgtgtggac ctggggccgg ggctctgtca agctgtgtgt gttgtgtgtac taactgtgt gcaactctc tgccttcaac atcgtgtctca ttagtaca ccgcttctgt tgggtcacc ggagcgtgtc ataccggggc cagcaggggt acacgggg ggacagtgccgg aagatgtct tgggtgtgt gctgggtctc ctgtgtacg gaccagccat cctgagctgg gtagacctgt cggggggcag ctccatccc ggaggggcact gctatggcca gttcttctac</p>	A	Homo sapiens

[illegible]

551	177387	G Protein- Coupled Receptor ORF4	NP_064540.1	<p>ggcccaaccg cctggggccc ttgccctctt ggctctctta ctgttgcccc gtcgtgcctc agttcttcac cttagacctt atgaacctct actttggcca ggttggtgtc aaggccaagg tgaagcgtctg gccaagatag agccaggagct tgcctgctgt cctgaaggggcc tttgggggg cctcgtctgt ctttctctg gtaagcgtctg tcttctctgt gctctccat cggcgcgccac agccctggggc cctgtctgt gtccggtcc tggtagagca ctccctgtc gtcactgtcg cgtctctt tgcctgctgc ctctgctctg tgcagagcgg ggccctcca ctagcatcta cctgaaggcc aaggtagggc tgcagcactg atgccagggt gcttttggg tctctgggca gggttctca ggggttagag</p> <p>MESNLSGLVP AAGLVPALPP AVTLGLTAAY TTLVALFFS VYAQLWLVL YGHKRLSYQT VFLALCLLWA ALRTILFSY FRDTPRANRL GPLFWLLYC CPVCLQFFTL TLMNLVFAQV VFKAKVKRRP EMSRGLLAVR GAFVGASLLF LLVNVLCVAVL SHRRAPQWAL LLVRVLVSDS LFWICALSLA ACLCLVASGR PPLASTWRPR</p>	P	Homo sapiens
552	180956	Lysophosphatidic Acid Receptor Edg7	NM_012152	<p>ctctttaaa ttctttcta ggaigtccac ttcttcca caatgaatga ggttcacat gacaagcaca tggactttt ttaataagg agcaacactg atacttoga tgcctggaca ggaacaaagc ttgtattgt ttgtgtt gggacgttt tctgcctgt tatttttt tctaattct tggctcgc ggcagtgatc aaaaacagaa aatttcatt cccctctac taccgttgg ctaatttagc tgcctggat ttcttgcctg gaattgctta tttattcttg algttaaca caggccacag ttaaaaaact ttgactgtca accgttgggt tctcgtcag gggcttctgg acagttagct gactgtctcc ctaccaact tgcctggtat cgtcgttgg aggcacatgt caatcatag gattcggtc catagcaacc tgaacaaaa gagggtgaca ctgtcattt tgcctgtcgt tctccttgg ccccaatta cagcaggagt tacctgtt ggcggtccc cacactgggc tggattgccc ttgtcaacat ctctgcctgc tctccttgg ccccaatta cagcaggagt tacctgtt tctggacagt gtcaacatc algccctcc tcatcaggt tgggtgttgc ctgcgactt acgtgtactt caagagaaaa accaacgtct tgcctccga tacaattggg tcatcagcc ggcggagagc acccaagaag ctaatgaaga cgtgtgtagc tgcctaggc gctgttggg tatctggac cccgggccc ggtgtctgc tctcgtcagc cctgaactgc aggcaggtgtg gcgtgcagca tggtaaaagg tggctctgc tgcctggcgt gctcaactcc tctgtgaacc ccatcacta ctctacaag gacgaggaaca tttatggcac catgaagaag atgattcgt gctctctca ggaagaacca gtaggggctc cctctgcac cccttcaca gtctcagca gtaggtgacac aggcagocag tacatagagg atagtattag ccaagggtgca gcttgcaata aaagcactic ctataacttg galcctctc gggccaccca ggtgtagct gctttag</p> <p>MNECHYDKHM DFFYNRSNTD TVDDWTGTL VVLCVGTFF CLFIFFNSNL VIAAVKNRK FHPFFYLLA NLAAADFFAG IAYVLFMNT GPVSKTLTVN RWFLRQGLLD SSLTASLTNL LVIAVERHMS IMRMVRHSNL TKKRVTLIL LVWAIAMFG AVPTLGNWNL CNISACSSLA PIYSRYLVF WTVSNLMAFL IMVVVYLRV VYVKRKTNL SPHTSGSISR RRTPMKLMKT VMTVLGAFV CWTPGLVLL LDGLNCRQCG VQHKRWFL LALLNSVNP IYSYKDED YGTMKKMICC FSQENPERRP SRPSTVLSR SDTGSQYIED SISQAVCNK STS</p>	A	Homo sapiens
553	180956	Lysophosphatidic Acid Receptor Edg7	NP_036284.1	<p>atggggcccc gcaagcgct gctggagggt ctctgttga tggtagggc cgtggcgctg ctatcaacg cacttggct gctttgtc gctacagcg ctgagctccg cactcagcc tcaaggctcc tcttggtaga tctgtcttg gggccactgc tgcctggggc gctggagcatg ccttcacg tctcgtgtt gtagcgcgcg cggacacccgt cggcgccggc cgcaltgcaa gtcatttggct tcttggacac ctcttggcg tccaacgccc cgtgtagcgt ggcggcgctg agcgcagacc agtggctggc agtgggcttc ccactgcgt acgcccggacg cctggcgacc cgtatggcg gcttgcctg gggctgtggc tggggacagt cgttggcctt ctacggcgt gcacttggct gctcggggct tggctacagc agcgccctcg cgtcctgtc gctcggcgt ccggccagagc ctgagcgctc ggccttggca gcttccacg ccacgttcca tggcgaggc ttgctgtgc cgttggcgt gcttgcctc accctgctcc aggtgacacg ggtggcagcg agacactgac agcagaltga caccgtcac atgaaggcgc</p>	P	Homo sapiens
554	189873	G Protein- Coupled Receptor GPR78	AF411107	<p>atggggcccc gcaagcgct gctggagggt ctctgttga tggtagggc cgtggcgctg ctatcaacg cacttggct gctttgtc gctacagcg ctgagctccg cactcagcc tcaaggctcc tcttggtaga tctgtcttg gggccactgc tgcctggggc gctggagcatg ccttcacg tctcgtgtt gtagcgcgcg cggacacccgt cggcgccggc cgcaltgcaa gtcatttggct tcttggacac ctcttggcg tccaacgccc cgtgtagcgt ggcggcgctg agcgcagacc agtggctggc agtgggcttc ccactgcgt acgcccggacg cctggcgacc cgtatggcg gcttgcctg gggctgtggc tggggacagt cgttggcctt ctacggcgt gcacttggct gctcggggct tggctacagc agcgccctcg cgtcctgtc gctcggcgt ccggccagagc ctgagcgctc ggccttggca gcttccacg ccacgttcca tggcgaggc ttgctgtgc cgttggcgt gcttgcctc accctgctcc aggtgacacg ggtggcagcg agacactgac agcagaltga caccgtcac atgaaggcgc</p>	A	Homo sapiens

555	189873	G Protein- Coupled Receptor GPR78	CAC34041.1	<p>tcgccgtgct cggcgacctg caaccacgtg tgcggcacgg ctgcctcalt cagcagaagc ggccgcggcca ccgcgccacc aggaagattg gcatgctat tgcgaactt ctaatgct tgcgccgtg tgcctcgtg tgcctcgtg aggtcggcg agctcgtgoc cttcgtacc gigaacgcc agtggggcat cctcagcaag tgcctgaact acagcaggc gggtggccgac ccgttcacgt actctctgt ccgcggggccg ttccggccaag tccggccggc catgggtcac cggcttgcctg agagaacccc gcgccacgca tcacccatg acagctctt ggatggggc ggcatggggc accagctgct gaaagagaacc ccgcggccag cgtccaccca caacggctt ggagacacag agaatgctt ctgcctggcag cagacact ga</p> <p>MGPGEALLAG LLVMVLAVL LSNALVLLCC AYSAEIRTRA SGVLLVNLSL GHLLAALDM PFTLLGVMRG RTPSAPGACQ VIGFLDTFLA SNAALSVAAL SADQWLAVGF PLRYAGRLRP RYAGLLGCA WQSLAFSGA ALGCSWLGYG SAFASCSRLP PPEPRPRFA AFTATLHAVG FVLPLAVLCL TSLQVHRVAR RHCQRMDTWT MKALALLADL HPSVRQRCLQ QKRRRHRAT RKIGIAIATF LICFAPYVMT RLAEVFPFVT VNAQWGILSK CLTYSKAVAD PFTYSLLRP FRQVLGMVH RLLKRTPRPA STHDSSLDVA GMVHQLLKRT PRPASTHNGS VDTENDSCLQ QTH</p>	P	Homo sapiens
556	189874	Neuromedin U Receptor 2	NM_020167	<p>atggaazaaac ttcaagaatgc ttcttgatc taccagcaga aactagaaga tcaattccag aaacacactga acagcaccga ggagiatctg gcttctctt gcggacactcg gcgcagccac ttctctcc ccgtgtctgt gggtatggtg ccaattttg tgggggggt cattggcaal gtctgggtg gcttgggtat tctgcagcac caggctatga agacgcccac caactactac ctctcagcc tggcggctc tgaactctg gtctgtctc ttggaaatgoc cctggaggtc tatgagatgt ggcgcaacta cctttctg ttcggcccg tggcgtgcta ctcaagacg gccctcttg agaccgttg cttcgctcc atctcagca tcaaccgt cagcgtggag cgtactggg ccatctaca cccgtccgc gccaaatgc agagcacccg gcgcggggc ctcaggatoc tcggcatgt cggggctt tccgtgtct ttccctgccc caacacagc atccatggca tcaagtcca ctactccc aalgggtccc tgggccagg ttggccacc tgaaggta tcaagccat ggagatcac aattatca tcaaggctac ctctctta ttctacctc tcccatgac tgcctcgt gtctctact acctcagc actcagcaga aagagaagaca aatctctga ggcatgaa gggaatgcaa atattcaag acctgcaga aaatcagcaca acaagatgt gttgtctg tctatgtg ttgtatctg ttggccccc ttccattg accgacttt cttagctt tgggaggagt ggagtgatc cctggctgct gggtcaacc tctccatgt tgggtcaggt gtcttctt acctgagtc agtgcacac ccattatct ataacctact gtctgccc ttcaggcag cattocagaa tgtatctt tcttccaca aacagtgga ctccagcat gaccacagt tgcacatgc ctagcggaaac atctctga cagaatgoca cttgggag ctgaccgag alatalgccc ccaattcca tgcagcat ccatgcaca ctctacatc ccaacagccc tctctaga acagatga agaaactat atcaagctt ccatitac azaactga</p> <p>MEKLQNASWI YQQLKLEDPFQ KHLNSTEYL AFLCGPRRSH FFLPVSVVYV PIFVVGIGN VLVCLVILQH QAMKTPTNY LFLAVSDLL VLLGMPLEV YEMWRNYPFL FGPVGCYFKT ALFETVCFAS ILSTTVSVE RYVAILHPFR AKLQSTRRA LRILGVWGF SVLFLPNTS IHGKFHYFP NGSLVPGSAT CTVIKPMWY NFHQVTSFL FYLLPMTVIS VLYLMALRL KKDKSLEADE GNANIQRPCR KSVNKMFLVL VLVFAICWAP FHIDRLFFSF VEEWSESAA VFNLVHVVSF VFFYLSA VNIYNLLSRR FQAAFQNVIS SFHKQWHSQH DPQLPPAQRN IFLTECHFVE LTEDIGPQFP CQSSMHNSHL PTALSSEQMS RTNYQSFHFN KT</p>	A	Homo sapiens
557	189874	Neuromedin U Receptor 2	NP_064552.1	<p>atgtggcag ctgcttgc agacttaac tccagcagca tgaatgtgc cttgtcac ctccattg ccgagaggta cctgcctct gattccagg actggagaac catatccg gctcttgg tggctgtctg cctggggg ttcggggaa acctgtgtgt</p>	P	Homo sapiens
558	189884	G Protein- Coupled Receptor	LG94108	<p>atgtggcag ctgcttgc agacttaac tccagcagca tgaatgtgc cttgtcac ctccattg ccgagaggta cctgcctct gattccagg actggagaac catatccg gctcttgg tggctgtctg cctggggg ttcggggaa acctgtgtgt</p>	A	Homo sapiens

Ls189884

559 189884 G Protein- ENSMPRT1140 P Homo
Coupled Receptor 67 sapiens
Ls189884

gattggcatt ctccttccaa atgcttgagaa agggaaagcca tccatgattcc attccctgat tctgaatttc agcttggtcc atctctccct
cctgctgttt tctggaccata tccgagcttac ggcgtactcc aaaaagtggtt gggtatctaggg ctgggttggtc tgcgaatcct ctgacttggtt
tattccacaa tgcattggcag ccaagtagctt gacaatcgtt gttgttggtcca aagttatgctt catgtatgca agttgacccag
ccaaggcaat gtagtatccac aactacaca tctggtcagt gcttggtggcc atctggtagcgg tggcttagctt gttacccctg
ccggaaagggt tcttagcac catcaggcat catgaagggtg tggaaatggg cctcgttgat gttaccagctg tggctgtaga
gtttatgctg atgttggtga agcttaccc attccaggga ttggccttc cattatttt tgcagcctt tattctggga gtagctatga
ccaatgtaaa aaacgtaggaa ctgaagactca aaactatgga aaccagatgc gttcaaaagca agttacaggtg atgctgtctga
gcatggccat catctctgct ccttggtggc tcccggaatg gggtagcttggt ctgtgggtat gggtcatgtaa ggtctgcaaggc
ccggcccccac cacaagggtt catagccctg tctcaagtct tgaatttt catcttca gcaaatcctc tcattttct tgttatgctg
gaaagtta ggggaaggctt gaaagggtga tggaaatgga tgaatacga aatacctcca actgtctcag agttcagggga
aaacccagct ggcaactcag aggtgtcttc tgaacagggt ccatctcag aatccccagc attccatacca gaaaaagga
aaacccagctc tccctctct ggcaaaaggga aaactgaagaa ggcaagagatt ccatcttc ctgacgtatga gtagttttgg
catgaagagg acacagctcc ttctgacag gacaatgacc ctatccctg ggaacatgaa gataaagga cagggggaagg
tgttaaatag

560 189895 G Protein- NM_031936 A Homo
Coupled Receptor sapiens
GPR61

atggagtct caccatccc ccagtcata gggcaactct ccaattggg gtaggggtcc caaacccag gttccctac
tgcagtggg gttccggagg tgggggtacg ggaattgct tggaaatcg tggccctct cttaagctc ctgctggact
tgaactgct ggctggcaat gctgctgga tggccgtgat cggcaagacg cctggccctc gaaaattgt ctgctctc
cactctgccc tgggtgacct gctggctgccc ctgacccca tggccctggc cagctctcc agccctgccc tcttgacca
cgccctctt gggtgagggtg cctggccct ctactgtt ctgagcgtt gctttgtag cctgggtcag cctgggtcag ctctgggt cagccalcaa
tggtagcgc tactattac tagtccatcc catgctgctac gagggtgctga tgaagctgggg gctgggtggcc tctgtgctgg
tgggtgtgtg ggttagaggcc ttggccalg ctctgtgccc agttgtggga aggtgtctct gggtgtagagg agttccaggt
gtcccccac actgttcat ccagtgggac cagagtgtct actgccaagt ttgtgtgtg gttgtgtcgt tcttactt tctgtgccc
ctgctctca tacttgtt ctactgagc atgttccag tggcccgctt gggtcccgctt cgaagcggggc cgtctgcccac
gttgtagggag acaccccgcc aacgtctcca atctcagc agccctccca cgaatggtcac cagctcggggg gcccccaga
ccacccaca ccggagcttt gggtgaggga aagcagcagt gtttctctg gctatgctgg gtaggtgggg gacagttctt gctctgtgtg
tggccctact tctcttoca ctctalggt gcccgtgag ctgagcccat ttcaactggg caggtgtgga gttgtgtcac ctgctgtggc
tactttgt tcaattcaa cctttctc tatgagctc taacccgca gttccggggg gtaggtgtgac agcagttgt ctgctcttc
aagccagctc cagtaggga gtttaggtc ctagccgggg aggtgtccat tgggtggaac ttctgtag ttctcaggg
gactggctgt cctctgtat cctgggttc ccgaacctta cccagcccca agcagggagcc acctgctgt gactttcga
tccaggccag atag

561 189895 G Protein- NP_114142.1 P Homo
MESSPQQSS GNSSTLGRVP QTPGPSTASG VPVGLRDVA SESVALFFML

565	189901	G Protein- Coupled Receptor Ls189901 (HEOAD54)	CAC38933.1	<p>ggccaccgg gcacttgccc ccaegggaagc acggctcagc acgttggtggg gctgcaccac cticaggtag cgttgtagtg cgaatgctgt gaggaagaca acgtggccgg tgcgttggtt ggacagcagc aagaggttga cttgcaaggc agcagcccca aagcccgagg tctatggag gaggttagtag tccacgcgga gggcgcaaggtt gctgacagag aggaagtcag cggccaccag gctgaccagg aacaccgtgt tggaggtcca gggccgcgig tggagtcaga agatgaagag ggccaactig tccccacca ggccaccagc aaactcagg gccaggatig gtgccaggaa ggcaagacc agcagggaag aggtggggg gcaaggccct ccaggacc ccccaagcgt ggtaaggc</p> <p>MELHNLSSPS PSLSSSVLPP SFPSPSSAP SAFTTVGGSS GGPCHPTSSS LVSAFLAPIL P Homo sapiens</p> <p>ALEFVLGLVG NSLALFICI HTRPWTSTNV FLVSLVAADF LLISNLPLRV DYVLLHETWR FGAAACKVNL FMLSTNRTAS VVELTAIALN RYLKVVQPHH VLSRASVGAA ARVAGGLWVG ILLNGHLL STFGSPCLS YRVGTPKSAS LRWHQALYLL EFFLPLAL FAIVSIGLTI RNRGLGGQAG QRAMRVLAM VVAVYTICFL PSIFGMSM VAFWLSACRS LDLCTQLFHG SLAFTYLSNV LDPVLYCFSS PNFLHQSRAL LGLTRGRQP VSDESSYQPS RQWRYREASR KAEAIKLV QGEVSLEKEG SSQK</p>
566	189904	Purinergic Receptor P2U2 (GPR91)	NM_033050	<p>ggtaagggt taactcagca gaattigtg aacaactacg acalgctggg gatcagcca tggaaigcaa ctgcaaaaa ctggctggca gcagaggctg cctgggaaa gtactactt tccattttt atgggauga gttcgttg ggagtccttg gaaalaccat tgtgtttac ggtaactct tctictgaa gaactggaa agcagtaala ttatctct taaactct gtcicgact tagctttct gtgcacccc cccatcgtga taaggagta tggcaatgga aactggatat atggagactg gctctgcata agcaacogat atgtcttca tggcaacct talaccaga ttctttct cactttatc agcatagat gatctgat aattagrat cctttccgag aacacctt gcaaaagaaa gagttgcta tttaactc ctggccat tgggtttg taacttga gttactacc atacttccc ttataatcc tgttaact gacaaigga ccactgtaa tgaattgca agtctggag accccaacta caactcatt tacagcat gttaacact gtggggct ctattctc ttittigt gttttct tattaacaga tttctct cttaaagcag aggaataggc aggtgtctac tgcctggccc ctgaaagc ctctcaactt ggtaicagc gcagtggttaa tctctgt gcttttaca cctatcacg tcalcggaa tggaggalc gcttcagccc tggggagtg gaaagcagat cagtcgac aggtcgtat caactctt tacttga cagggctt ggctcttg aacagrica tcaacctgt ctctattt ctttggag atcactcag ggacatgctg atgaatac tgaagacaaa ctcaalcc cttaacct ttacagatg ggctcagaa ctctactt catcagaga aagtgaggg gcttgtaaa cagattgtc tacagatga tctgtaagcc agttacagt tgccttaact calagacalc aatcagagag tgcacagat ttaacctga tctaaagaca agtgaacc agagtatg aaaaagalg gcagacaaga atgtactgt tcttctct aagaatgaa aggagtgaa ctgcctatg ttgggcag taactcaaa atactagga gataagct tctcaatca gtgcaaaaat ggaaalatata, laaagcaaca agtgtctgc attgacac tggcagat gtaaaaaa aaaaaaaa</p> <p>MAWNATCKNW LAEAALEKY YLSIFYGIEF VVGLGNTIV VYGYIFSLKN P Homo sapiens</p> <p>WNSSNYLFL NSVDLAFCL TPLMLIRSYA NGNWTYGDVL CISNRYVLHA NLYTSILFLT FISIDRYLII KYPREHLLQ KKEFALLISL AIWVLTLEL LPILPLNPV ITDNGTICND FASSGDPNLYN LYSMCLTLL GFLPLFVMC FFYKIALFL KQRNRQVATA LPLEKPLNV IMAVVIFSVL FTYHVMRNV RIASRLGSWK QYQCTQVVIN SFYIVTRPLA FLNSVINPVF YELLGDHFRD MLMNQLRHNH KSLTSFSRWA HELLSFREK</p>
567	189904	Purinergic Receptor P2U2 (GPR91)	NP_149039.1	<p>ggagccatg cctctgggc tctccggg gcgcocggc gctgccttc gcttgaggca aagagactct tgtggaagt ggaaactatt gtcatttc cagaatgat ttcaagccc alcaalgga cctgactg ctgtcttg ttgaatgct tgaagaact ctgcatct gcttgcat tcalocctac tgaaccatg gctctcgg cagtgtgac tgcgttccat accgggacal ccaacaaac</p>
568	189920	G Protein- Coupled Receptor GPR63 (PSP24)	NM_030784	<p>ggagccatg cctctgggc tctccggg gcgcocggc gctgccttc gcttgaggca aagagactct tgtggaagt ggaaactatt gtcatttc cagaatgat ttcaagccc alcaalgga cctgactg ctgtcttg ttgaatgct tgaagaact ctgcatct gcttgcat tcalocctac tgaaccatg gctctcgg cagtgtgac tgcgttccat accgggacal ccaacaaac</p>

beta)	<p>attgtgtgtg taigaaaca cctacatgaa lattacatc cctccaccat tccagcatcc tgcactcagt ccatgtcta gatatagtt tgaaccatg gctccactg gtttgatg ctgacgtg aatagatag ctgtgcccac aacaccagca gcaatlaaga gctaaacti gctcttcag atcaccctt cigtataat gataitcatt cigtgtgt ctttttgg gaacttgg gtttgcctca tggtttaaca aaaaagctgcc algaggctg caatlaacat cctctggc agcctagct tgcagacat gttcttgca gtcctgaaca tgcctttgc ccttgtaact attctacta cccgatggat ttugggaaa ttctctgta tgggtatcgc taigtittic tggttattg tgalagaag agtagccatc ctgtcatca ttacataga taggttctt attatggcc agaggcagga taagctaaac ccatatagag ctgaagttct gatgcagt tcttggcaca ctctcttg ttagtctt cctttagccg taggaaacc cgcctgcag atacctcc gagctcccca gtgtgtgt tgggtacaca ccaatccagg ctaccagg ttagtgatt tgaattct catcttct ttcalacct tcttggtat actgtacta ttatgggca tactcaac ccttcggcac aatgcttga ggtatccatag ctacctgaa ggtatagcc tcaagccaggc cagcaaacgt ggtctcalga gtctgcagag accittccag atgagcattg acalgggct taaaacacgt gcttcacca ctattgtat tctttgtct gcttcattg tctgtctggc cccattccac acttacagcc ttgttgcaac attcgtatg cactttact atcagcaca ctttttag attagcactt ggtctatg gctctgtac ctcaagctg catgaaacc gctgtatc tactggagga ttagaat ccatgtgt tgcctgggaca tgaatgct tgcctgggaca gctctcaag ttttgccc agctccctgg tcacacaaag cgaaggatg gctctatg tcttggtgac atcggagctt ggttgaaat tgggaactgg ctgacattt ggttgatgct tgtcttat tgcattgaa ttctcttct catagctct ccaattat ttittata gggttgtgt alglatgtgt gtagacagtg taaagaaaga alggtlaata tgtctgtt accaagaata aataatagga aagtgtatc aaataaac tccagggtc aatagaatc ctaattag ggttgagaga ctttttgg gtttgggt ttctcttga ttgattgt ttcalatg ggaatcagga ttgtgttga ttgagctgc agttacatg aattgtgtt gttctgtg ctgtaagggt atgtattt gagttaata agactttt ttcttgaa gacatgtg cttttacat ccaattgg cc</p>	<p>569 189920 G Protein-Coupled Receptor GPR63 (PSP24 beta)</p>	<p>NP_110411.1</p>	<p>P Homo sapiens</p>	<p>MVFSAVLTAF HTGTSNTTFV VYENTYMNIT LPPFQHPDL SPLRYSFET MAPTGLSST VNSTAVPTTP AAFKSLNPL QITLSAMIF ILFVSFLGNL VVCLMVYQKA AMRSAINLL ASLAFADMLL AVLNMFPALV TLTTRWFQ KFFCRVSAMF FWLFVIEGVA ILLIISIDRF LIIVQRQDKL NPYRAKVLIA VSWATSFCVA FPLAVGNPDL QIPSRAPQCV FGYYTNPYQ AYVILISLIS FFPFLVILY SFGILNLT HNALRIHSYP EGICLSQASK LGLMSLQRPF QMSIDMGFKT RAFTTILF AVFVWCWAPF ITTYSLVATFS KHYYQHNF EISTWLLWLC YLKSALNPLI YYWRKKFHD ACLDMMPKSF KFLPQLPQHT KRRIRPSAVY VCGEHRTVV</p>
G Protein-Coupled Receptor Dj287g14.2	<p>tgtctgagt catcttga agcttaaaa acaattgag aattggctt caagatagac ctataatgca catcacatg gaatatata actcggaaact tggctctcag cgtatcc cgtttaccag ggaacaaagc aatitcaaat tttagcattg gcttccaaag caataatgaa tctgtattcc agatggatt tgaagtgga caagtggaat cactggcatc tgaattttg cctccaact tacttgagaa tttagtcca gaaatctg tatagtag aagagcacag ttacttct tcaacaaaac tggactttc caggatgtag gaccocaaag aaaaacttta gtagatttg tgaatggcag aacattacta tccagaatct gaaagatcct gttcaataaa aatacaaca tacaagaact caggaaagtc atcatccat ctgtgcttc tgggatctga acaaaaaa aagttttgga ggttggaaca cgtcagatg tgtgtcacac agagatctag algcaagtgga gacagctgc ctgtgttaacc acttcacaca ctttgaggt ctgatggacc ttccaagaag tgcctcacag ttatgtgct ttgagaatt ggcgaaggat tatccctcca aaacttgat gaaacctgagc cagcagcaac tctcttgaca taigtgtct ttgagaatt ggcgaaggat tatccctcca aaacttgat gaaacctgagc acagccctgc tgttcttgaa tctctcttc cctctagag gctgagatcac cctctcaat gtagatggac ttgtcatg tgtgagtc ctgtgtcatt tcttctctt ggcacactt acctggatgg ggtctagaaagc aattcacatg tactgtctc tagttaaagt atttaaacat tactatgccc gatacattct aaaaatcgc atcattggct ggggtttggc tgcctagtg gttgtcagtg ttctagcagc cagaacaac aatgaagct alggtatggg aaggttaaaag gtgatgaatt ctgttggtt caagatccag tcalattta tgtgacctgt</p>	<p>570 189945 G Protein-Coupled Receptor Dj287g14.2</p>	<p>AK027843</p>	<p>A Homo sapiens</p>	<p>tgtctgagt catcttga agcttaaaa acaattgag aattggctt caagatagac ctataatgca catcacatg gaatatata actcggaaact tggctctcag cgtatcc cgtttaccag ggaacaaagc aatitcaaat tttagcattg gcttccaaag caataatgaa tctgtattcc agatggatt tgaagtgga caagtggaat cactggcatc tgaattttg cctccaact tacttgagaa tttagtcca gaaatctg tatagtag aagagcacag ttacttct tcaacaaaac tggactttc caggatgtag gaccocaaag aaaaacttta gtagatttg tgaatggcag aacattacta tccagaatct gaaagatcct gttcaataaa aatacaaca tacaagaact caggaaagtc atcatccat ctgtgcttc tgggatctga acaaaaaa aagttttgga ggttggaaca cgtcagatg tgtgtcacac agagatctag algcaagtgga gacagctgc ctgtgttaacc acttcacaca ctttgaggt ctgatggacc ttccaagaag tgcctcacag ttatgtgct ttgagaatt ggcgaaggat tatccctcca aaacttgat gaaacctgagc cagcagcaac tctcttgaca taigtgtct ttgagaatt ggcgaaggat tatccctcca aaacttgat gaaacctgagc acagccctgc tgttcttgaa tctctcttc cctctagag gctgagatcac cctctcaat gtagatggac ttgtcatg tgtgagtc ctgtgtcatt tcttctctt ggcacactt acctggatgg ggtctagaaagc aattcacatg tactgtctc tagttaaagt atttaaacat tactatgccc gatacattct aaaaatcgc atcattggct ggggtttggc tgcctagtg gttgtcagtg ttctagcagc cagaacaac aatgaagct alggtatggg aaggttaaaag gtgatgaatt ctgttggtt caagatccag tcalattta tgtgacctgt</p>

gctgggtatt ttggaagcat gttttctg aacatggcca tgttcattgt tggaaatgggtg capatctgtg ggaaggaatgg caagagaagc
aacgggaccc tgaagaaga aggttaagg aactggcga ggttggttag ctgtaacctt cgtttgggga tgaatgggg
tttgcatc ttggccggg gaccttaaa tatccctc atgtacctt tctacctt caatcata caaggcttat ttatatcat
cttccactgt gctatgaagg agaaagtca gaacaagtg gggcgggcat tctgtgtgtg tagattcggg ttgcagata
actcagattg ggttaagaca gctaacata tcatcaagaa aagtctgtat aatcagggaa aattttgtc ttcaagctcc attggtcca
actcaacct tcttacct aaatcaaat ccagctctac cactattc azaagggtaa gccaacaga taatgtctc taigagcatt
cttcaaca aagtggatca ctcaagacgt gcttccatgg acaagctt gtaaacgt gccaacac tctataaaa alattatcat
aaatcaatc atccctggc atcaggctat tgaaggic aagggtatt gcaagctca ttgagacaac ttctataaa alattatcat
gtcagacacc ttcagccaca gcacaaggt taaagtct taaagaaaag aaatacat gcaagaatgt gaagattgtc
aagcagtgta aactgcaact agtgaatgaa atgtgtatt acctaggtaa ctgcataat ataaaggaaatg tatttgta agaagggctt
tggaaatc agaattttc tttaatat attcttcca tggaaaggtt gtcacata aaactcagt actgagagta acaagctca
gtgccacag aagctatgat ttgaaata tataatgaa tcaagatgat cataatgcag gggagacatt caaatagag
acaagggaaga agcaatgctg aggaagacc tagatagagc tcaatttact ccaactaat gttatctg gataacca ttcttgcatt
ctttctc aacaataac tggctgtct ttggagactt taaagacatt cctaagcac aaataaagc ctgtattc cccattgaga
gtttgttc aaggaaatg aagtgagaca tatgggtgag tcaataat caaataat tatgaagagc tgggtctgca atagctagtc
taaaactac ttgtgtca gctcttgg ttatgtat aagagctga ggaagctg gcaatctt ggaatagct tctgtctaa tgaatgata
ggctgtcga tacaacct gcalactt atgcagctta cctaactc agactatct ggaatagct ctatgtcat gctgtctt ttacattg
ggagaacca ttgtaattgt tcttagatga tggagctcat gcaagttctt agaaatcgt ctatgtcat gctgtctt ttacattg
ctctgggta tctgggaagt atcaggtct gggagagcaac agcatiaagt gataagaaaa ggaagacattc tggcaagcc
aatgtcta aaggcaagt ccaagacct gaaactagag gctttctct ctgcagaaa aacaggtagt tgcagctg
agataaggga gagcttiag gctacacag aacccaagg acctctacc ttgtctgag ctcaatcag gaaactatt
ggctggctcc agcagatgat gagaataiga gtagtgggt ttattatc tgttccatt tgaacatcc tgaacacca tctgggaga
caagagcatt accagctg gcttcacgg gggaggggt tctcagt
MDFESGQVDP LASVILPPNL LENLSPEDSV LVRRRAQTFIF NKTGLFQDVG
PQRKTLVSVV MACSIGNITI QNLKDPVQIK IKHTRTQEVH HPICAFWDLN
KNKSFGGWNT SGCVAHRSD ASETVCLCNH FTHFGVLM DL PRSASQLDAR
NTKVLTFISY IGCISAFS AATLLTYVAF EKLRRDYP SK LMNLSTALL FLNLLFLD LG
WITSFNVDGL CIAVAVLLHF FLAFTTWG LEAHMYIAL VKVFNTYIR
YILKFCIGW GLPALVSVV LASRNNNEVY GKESYGKEKG DEFCWIQDPV
IFYVTCAGYF GVMFFLNAM FIVVMVQICG RNKRSNRTL REEVLRNLS
VVSLLTLLGM TWGFAFFAWG PLNPFMYLF SIFNSLQGLF IFIFHCAMKE
NVQKQWRRHL CCGRFLADN SDWSKTATNI IKKSSDNLGK SLSSSIGSN
STYLTSSKS SSTTYFKRNS HTDNVSYEHS FNKSGSLRQC FHGQVL VKTG PC
caccatagg caaagatagt tctctagag agaatatgc ctgcaata caggtgtacc aggcagatg ggaacaatc
agatttcca tacttatt atgcagtgac atacatgct atcttgic caggtctcat agggaaataa ttggccctt gggtaicta
tggtaatg aagaacaaca aacgagctgt galattatg ataaactag ccattgtcga cttaacaa gttcttct tgcctcag
gactctac tactgaatc atgactggcc atttgggct ggtctcga tgttctgtt ctactgaag tatgtcaaca tgaatgcaag
calctact ttgtctgca tcaagtggcg acgaattgg ttctcagt acctcttgc ctctacac tgaacaaga aalagtacct
gtacatcagc atgtctggct ggcctatcat ctgcttgc tgttactt ttccactct cagaaccagt gatatact ctggcaatag
gaccaaatgc ttgtgtgac ttctacacag gaatgcaac ctggccagct ccgtgtat gatgacatt ggcaggttga ttgggttgt

571	189945	G Protein- Coupled Receptor Dj287g14.2	BAB55406	P	Homo sapiens
572	190026	G Protein- Coupled Receptor JEG18	NM_032553	A	Homo sapiens

573	190026	G Protein- Coupled Receptor JEG18	NP_115942.1	MPANYTCTRP DGDNTDFRYF IYAVTYTVIL VPGLIGNILA LWVFGYMKKE TKRAVIFMIN LAIADLLQVL SLPLRIFYYL NHDWPFQPL CMFCFYLKYV NMYASIYFLV CISVRRFWFL MYPRFHDCK QKYDLYSIS GWLJCLACV LFPLRLTSD TSGNRTKCFV DLPTRNVNLA QSVVMMTIGE LIGFVTPLLI VLYCTWKTVL SLQDKYPMAQ DLGEKQKALK MILTCAGVFL ICFAPYHFSF PLDFLVKSNE KSCLARRVI LIFHSVALCL ASLNSCLDPV IYFSTNEFR RRLSRQDLHD SIQLHAKSFV SNHTASTMTP ELC	P	Homo sapiens
574	190031	G Protein- Coupled Receptor VLGR1	AF055084	attactglat atglatglat tgcgcgiga tcccaagg tcaattat gacagcaict tictgattt ctacagttt attactoc callgoccaa gtttagaac ttatattag ttggcttc gtacaggcac cactcattgg gagcaacaca gaaactggt tcaaacalc atttcaggaa aagaagaala tttagcggt gaggaactt aaagatttg cagctactia tagaactaag tigtaggagc taaggagc tttaattca tgcatagcaa ttatglat ttgtgttg ttatattt ttatattg attgtatga ctgttgaa gaaggtatgatt ttacattca agaaalggc ctcatagtag ataacctcc tgaataggga aacalcctca ttgttgcct cataatattg aaaaatgata acgcaagagg calcatigaa ttgaccaca agtatctgc ctgcgaagg gaggaagatg ttggctgcat calgatccca gtgttgaggc tacaatgaa ttatggctat gtgacagctg attcacttc tcaaggctcc tctggcagtc ccggagggtg tgaattcat ttgcattgca gtacagtcac ctctcagcat gggaactaaact taagtattt aaatattcc atcatgtag acaatgaaag tgaattgag gagccattg aaatttact cactggagct acggaggagc cggctctgg gcgccacta gtgagcagaa tcaataatg taaggatgac tctoccttg gattataag gtttccat caaagcaaaa ttctattgc taatccaat tccacaatga ttatcact ggcttggag cggactggag gactctggag agagattcag gtgactggag agacagtag acccaactct caagaagct tactgccaca gaataagagc attgcagacc cagtggagcgg gtgttctat ttggagaag gagaaggagagg agtggagacc ataattctga caactatcc tcatagagaa atggagatg aagaagacat caattataa cttaacttg tgaagagaga agctaaatta gactccagag ctaaaatgt tacaataacc atacaagatg ttgtgaccc aaatggatg gtltcagttg ctctgaaac ttgtctaaag aagactatt cagagccctt ggctctggaa ggggccctgc tcaattact ctgttcaga agatgcaagg gcaaccttgg agagattatg gtttactggg aattaaatag tgaatttgac attactgaag actttttc caccagtgga ttmtacca ttgcgtatgg agagatigaa gctagcttg algtcattt gclaccagat gagggtacttg agatagaga agattatgg atccagcttg ttcttgaaga ggagaggacc gaactggatc tggagagag latcacagg ttctgttt algtcattg tgaaccacat ggagatttg ccctgtatc ggatgccag tcaatacta ttggcagaa cttattaga tccatcaaa taacataaac ccggctgtgt ggacaattg gagatgtggc tgttggctt cgaatatcat cggatcataa agaacagccg attgtaccg aaatgcaaga gagtcagctg gtgtcaag atgtgtggcc atataagtg gactgttggt caataagaa tcaaggcttc ctatcagtg gcttaatt cacttgcaa ctgtgtacig tgaatgtg cgggtggacg ttctatgaa tggcaacat tctcagagaa gcaaatctg ctgtcttc agctctgg aaagctgcca attctcaggt cggatgaa tccactgt ttcaactat gaacactact gcttgacaaa gcccagttat gattctagg agaggacat atggagctt ctgggtggc tggagacatg gataatgctc tgggttagaa attctgaa tcaatgtgt tggcaacatg accacaacac tggggagct ttactttc caggtgaac aagggaaagg agttttctg tggagcttc ctggccctgg	A	Homo sapiens

575	190031	G Protein- Coupled Receptor VLGR1	AAD55586.1	<p>ggaggactac acatggoccta cagacacttc tggaltgtgg ttcttttgt catttcaac agtctgcagg gactttatgt ttatcaggtt tatttcatl tacacaacca aaltgtgtgc cctatgaagg ccagttaac tctgtgaatg aatgggcac cttggaccag cacagccitt ttacagccc ggagtggaat gcctcttgt ggaggggaaa tgcgaagtc caccagaat cttacgtgt ctatggagg gggtccacct gactgggaga gagcatcctt ccaacagggc agtcaggcca gccctgattt aaagccaagt ccacaaaatg gagccacgtt cccgtcctt ggaggatag gccaggggtc actgatagcc gatgaggagt cccaggagt tcatgattta atattgcat taaaactgg tctgtgtc agtgcagtc ataagaatc tggtaagg ccagacac accctgagca cctcataac cattgcactg gactgactc cagatgtgg agctcaggag galaccatc gccgacac cctgtgaa cctgtgaatt gtaactgagt agcacatt catattgta tcatgttg tctaaact cttcaagtc atccactgt gtaataggaa cctgtgaatt gtaactgagt attaalacaa actgtatgt tgaattgga gataaatta ctatgtgat gtagcctgaa aattcactgc tataagaaag gtagagtcag tttgtatcag ttaataggat gttcatatc caaggatatt agttgtttt ttaatcatcc tataaggcta acatgttta atgaagtaa taatcataa agcaatagaa tct</p> <p>MQLCIFCCC ILFYFDLYDF GRGYDFTIQE NGLQIDQPPE IGNISIVRII IMKNDNAEGI P Homo IEFDPKYTAF EVEEDVGLIM IPVVRHLGTY GYVTADFSIQ SSSASPGGVD sapiens YILHGSTVTF QHQQNLFIN ISIDDNESE FEEPIELLT GATGGAVLGR HL VSRILAK SDSPFGVIRF LNQKISIAN PNSTMILSLV LERTGGLLGE IQNVWETVGP NSQEALLPQN RDIADPVSL FYFGE GEGV RTIILTYPH EEIEVEETFI IKHL VKGEA KLDSRAKDVLT LTQEF GDN GVVQFAPETL SKKTYSEPLA LEGPLLTFF VRRVKGTFGE IMVYWEL SSE FDITEDFLST SGFFTIADGE SEASFDVHLL PDEVPEIEED YVIQLVSVEG GAELDLEKSI TWFSVYANDD PHGVFALYSD RQSILIGQNL IRSIQINIR LAGTFGDVAV GLRISSDHKE QPIVTENAER QL VVKDGATY KVDVVPIKNQ VFLSGSNFT LQLVTVMV LG GRFYGMPTIL QEAKSAVLV SEKAANSQVG FESTAFQLMN ITAGTSHVMI SRRGTYGALS VAWTTGYAPG LEIPEFIVVG NMPTLGSLS FSHGEQRKGV FLWTFPPGW PEAFLVHLSG VQSSAPGGAQ LRSGFIVAEI EPMGVFQFST SSRNI VSED TOMRLHVQR LFGFHSDLIK VSYQTTAGSA KPLEDFEPVQ NGELFFQKFQ TEVD FEITI NDQLSEIEF FYINLTSVEI RGLQKFDVNW SPRLNDFS V AVTILDND LAGMDISFPE TTVAVA VDTT LPVETEST YLSTSKTTTI LQPTNVVAIV TEATGVSAIP EKL VTLHGTP AVSEKPDVAT VTANVSIHGT FSLGPSIVYI EEMKNGTFN TAEVLIRRTG GFTGNVSITV KTFGERCAQM EPNALPFRGI YGISNLTWAV EEEDFEEQTL TLIFLDGERE RKVSVQILDD DEPEGQEFFY VFLTNPQGA QIVEGKDDTG FAFAMVIT GSDLHNGIIG FSEESQSGLE LREGA VMRL HLIVTRQPNR AFEDVKVFWR VTLNKTVVVL QKDGVLNMEE LQSVGTTTC TMGQTKCFIS IELKPEKVPQ VEVYFFVELY EATAGAAINN SARFAQIKL ESDSQSLVY FSVGSRLA VA HKKATLISLQ VARDSGTGLM MSVNFSTQEL RSAETIGRTI ISPAISGKDF VITEGTLVFE PGQRSTVLDV ILTPETGSLN SFFKRFOIVL FDPKGGARID KVYGTANIL VSDADSQAIW GLADQLHQPV NDDILNRVLH TISMKVATEN TDEQLSAMMH LIEKITTEGK IQAFSVASRT LFYEILCSLI NPKRKDTRGF SHFAEVTFENF AFSLLTNVTC GSPGEKSKI LDSCPYSIL ALHWYPQQIN GHKFEKEGD YRIPERLLD VQDAEIMAGK STCKLVQFTE YSSQQWFISG NNLPTLKNKV LSLSVKGQSS QLLTNDNEVL YRIYAAEPRI IPQTSCLLW NQAAASWLSD SQFCKVIEET</p>
-----	--------	---	------------	---

576	190168	G Protein- Coupled Receptor GPR58	NM_014626	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPQLAEECSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCPFNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWMVLVFLV FNSLQGLYVF MYYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADTHL atgtaacat ttatggcagg acataatc atcaaatat tiggcaalc ttgccatgata attccatt cctacticaa gcagctcac acaccaacca actctccat cctctccatg gccatcacg attctctc tgggaticacc atcagccat atagatgat cagatcggtg ggagaactgct ggatatttgg gcttaccatt tggcaagatt attatgctt tgaactgag cttagcataa catccattt tcatcttgc tcagtgcca ttgatagatt ttatgata ttgtaccat tacttatic caccataata actattccag tcaataaag attgctact ctatgttgg cggctccctgg agcatggcc ttccggggcg tcttctcaga ggctctatgca gatggaaatag agggctatga catcttgggt gctttgtcca gtctctgccc agtgaatgc aacaagctat ggggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgag gtggggattt acggcaaaat ttgtcagta tccagaaaac atgctcagtc calcaataac ttggagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtatag ggttttctt attatgttgg ttcttggtt tcttcaat tttatggat cccctttga acttctac tctctagtt ttgttgaag ccttgacatg gtttggctat tttaactca catgtaacc gttaataat ggtttctt atccctggt ttgcagagca ctgaatgata ttgtcagg taaatttcc agctcatgtt tccataatc tatgtgt atgcaaaaag aaagtatga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYVSFDM LSTISIFLHC SVAIDRFYAI CYPILYSTKI TIPVKRLLL LCWSVPGAF FGAVFSEYA DGIEGYDILV ACSSCPVMF NKLWGTLFM AGFTPGSMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVELLW FPCFFTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagacctt tccagttgc caaaattgt aaataagatc ctgtctccc accaacgct ctttcatgt ccaggatgata atgattcgg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatttcaaa cagcttcatc ctccacaaa cttctgact ctctccatgg caaccacgga ctttctcgt ggttttgca ttatgccata cagcataalg cgatcagtg agatgtctg gtactttggg gatggctttt gtaattcca caaagctt gacatgagc tcatgctgac ctccatttc cacctgtt ccatgctat ttgactgatt tatgctggt gttacccctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtctggcat ttgtctgtc agttctgct ctttttt ttgtttagt tctatctgag gccgatgtt coggtatgca gagctataag atactgtg ctgtctcaa ttctgtgct ctacttca acaaatctg ggggacataa ttgtcacta calgtttct tacctctggc tccatcagtg ttgtattta ttggcaaaat ttatgttt ccaaacagca ttctctgagtc atcagccatg ttccatgaaa cacaaggggg gcagtgaaaa aacactatc caagaaaaag gacagggaag cagcgaagac actggacata ttgtcacta calgtttct tacctctggc ttgtctgttg cctgttttc ttgtctgt gattgaccca taccagact actccactcc cataactata ttggatctt tagttgtgct ccgtacttc aactctact gcaacctct taltcagtc ttmtaat calgtttca gaaagcattc aagttacatag ttgtcaggaaa aatatttag tccattcag aaactgcaaa ttgttct gaagcacatt aa MDLTYIPEDL SSCPKFVNKI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
577	190168	G Protein- Coupled Receptor GPR58	NP_055441.1	MYSFMAAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYVSFDM LSTISIFLHC SVAIDRFYAI CYPILYSTKI TIPVKRLLL LCWSVPGAF FGAVFSEYA DGIEGYDILV ACSSCPVMF NKLWGTLFM AGFTPGSMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVELLW FPCFFTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagacctt tccagttgc caaaattgt aaataagatc ctgtctccc accaacgct ctttcatgt ccaggatgata atgattcgg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatttcaaa cagcttcatc ctccacaaa cttctgact ctctccatgg caaccacgga ctttctcgt ggttttgca ttatgccata cagcataalg cgatcagtg agatgtctg gtactttggg gatggctttt gtaattcca caaagctt gacatgagc tcatgctgac ctccatttc cacctgtt ccatgctat ttgactgatt tatgctggt gttacccctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtctggcat ttgtctgtc agttctgct ctttttt ttgtttagt tctatctgag gccgatgtt coggtatgca gagctataag atactgtg ctgtctcaa ttctgtgct ctacttca acaaatctg ggggacataa ttgtcacta calgtttct tacctctggc tccatcagtg ttgtattta ttggcaaaat ttatgttt ccaaacagca ttctctgagtc atcagccatg ttccatgaaa cacaaggggg gcagtgaaaa aacactatc caagaaaaag gacagggaag cagcgaagac actggacata ttgtcacta calgtttct tacctctggc ttgtctgttg cctgttttc ttgtctgt gattgaccca taccagact actccactcc cataactata ttggatctt tagttgtgct ccgtacttc aactctact gcaacctct taltcagtc ttmtaat calgtttca gaaagcattc aagttacatag ttgtcaggaaa aatatttag tccattcag aaactgcaaa ttgttct gaagcacatt aa MDLTYIPEDL SSCPKFVNKI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
578	190170	G Protein- Coupled Receptor GPR57	NM_014627	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPQLAEECSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCPFNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWMVLVFLV FNSLQGLYVF MYYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADTHL atgtaacat ttatggcagg acataatc atcaaatat tiggcaalc ttgccatgata attccatt cctacticaa gcagctcac acaccaacca actctccat cctctccatg gccatcacg attctctc tgggaticacc atcagccat atagatgat cagatcggtg ggagaactgct ggatatttgg gcttaccatt tggcaagatt attatgctt tgaactgag cttagcataa catccattt tcatcttgc tcagtgcca ttgatagatt ttatgata ttgtaccat tacttatic caccataata actattccag tcaataaag attgctact ctatgttgg cggctccctgg agcatggcc ttccggggcg tcttctcaga ggctctatgca gatggaaatag agggctatga catcttgggt gctttgtcca gtctctgccc agtgaatgc aacaagctat ggggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgag gtggggattt acggcaaaat ttgtcagta tccagaaaac atgctcagtc calcaataac ttggagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtatag ggttttctt attatgttgg ttcttggtt tcttcaat tttatggat cccctttga acttctac tctctagtt ttgttgaag ccttgacatg gtttggctat tttaactca catgtaacc gttaataat ggtttctt atccctggt ttgcagagca ctgaatgata ttgtcagg taaatttcc agctcatgtt tccataatc tatgtgt atgcaaaaag aaagtatga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYVSFDM LSTISIFLHC SVAIDRFYAI CYPILYSTKI TIPVKRLLL LCWSVPGAF FGAVFSEYA DGIEGYDILV ACSSCPVMF NKLWGTLFM AGFTPGSMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVELLW FPCFFTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagacctt tccagttgc caaaattgt aaataagatc ctgtctccc accaacgct ctttcatgt ccaggatgata atgattcgg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatttcaaa cagcttcatc ctccacaaa cttctgact ctctccatgg caaccacgga ctttctcgt ggttttgca ttatgccata cagcataalg cgatcagtg agatgtctg gtactttggg gatggctttt gtaattcca caaagctt gacatgagc tcatgctgac ctccatttc cacctgtt ccatgctat ttgactgatt tatgctggt gttacccctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtctggcat ttgtctgtc agttctgct ctttttt ttgtttagt tctatctgag gccgatgtt coggtatgca gagctataag atactgtg ctgtctcaa ttctgtgct ctacttca acaaatctg ggggacataa ttgtcacta calgtttct tacctctggc tccatcagtg ttgtattta ttggcaaaat ttatgttt ccaaacagca ttctctgagtc atcagccatg ttccatgaaa cacaaggggg gcagtgaaaa aacactatc caagaaaaag gacagggaag cagcgaagac actggacata ttgtcacta calgtttct tacctctggc ttgtctgttg cctgttttc ttgtctgt gattgaccca taccagact actccactcc cataactata ttggatctt tagttgtgct ccgtacttc aactctact gcaacctct taltcagtc ttmtaat calgtttca gaaagcattc aagttacatag ttgtcaggaaa aatatttag tccattcag aaactgcaaa ttgttct gaagcacatt aa MDLTYIPEDL SSCPKFVNKI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDLL GFVIMPYSIM RSVESCWYFG	Homo sapiens
579	190170	G Protein- Coupled Receptor	NP_055442.1	ADYVEACASH MSVYAVYART DNLSSYNEAF FTSGFICISG LCLAVLSHIF CARYSMFAAK LLTHMMAASL GTQILFLASA YASPQLAEECSAMAAVTHY LYLCQFSWML IQSVNFWYVL VMNDEHTERR YLLFLLSWG LPAFVVILLI VILKGIYHQS MSQIYGLIHG DLCPFNVA ALFTAALVPL TCLVVVFVVF IHAYQVKPW KAYDDVFRGR TNAAEIPLIL YLFALISVTW LWGGLHMYR HFWMVLVFLV FNSLQGLYVF MYYFILHNQM CPMKASYTV EMNGHPGPST AFFTPGSGMP PAGGEISKST QNLIGAMEEV PPDWERASFQ QGSQASPDLK PSPQNGATFP SSGYGQGS LIADEESQEFD DLIFALKTGA GLSVSDNESG QGSQEGGILT DSQIVELRRI PIADTHL atgtaacat ttatggcagg acataatc atcaaatat tiggcaalc ttgccatgata attccatt cctacticaa gcagctcac acaccaacca actctccat cctctccatg gccatcacg attctctc tgggaticacc atcagccat atagatgat cagatcggtg ggagaactgct ggatatttgg gcttaccatt tggcaagatt attatgctt tgaactgag cttagcataa catccattt tcatcttgc tcagtgcca ttgatagatt ttatgata ttgtaccat tacttatic caccataata actattccag tcaataaag attgctact ctatgttgg cggctccctgg agcatggcc ttccggggcg tcttctcaga ggctctatgca gatggaaatag agggctatga catcttgggt gctttgtcca gtctctgccc agtgaatgc aacaagctat ggggggaccac ctgtttatg gcaggtttct tcatcttgg gtctatgag gtggggattt acggcaaaat ttgtcagta tccagaaaac atgctcagtc calcaataac ttggagaaa atcaaaataa tcaagtgaag aaagacaaaa aagctggccaa aactttagga atagtatag ggttttctt attatgttgg ttcttggtt tcttcaat tttatggat cccctttga acttctac tctctagtt ttgttgaag ccttgacatg gtttggctat tttaactca catgtaacc gttaataat ggtttctt atccctggt ttgcagagca ctgaatgata ttgtcagg taaatttcc agctcatgtt tccataatc tatgtgt atgcaaaaag aaagtatga g MYSFMAGSIF ITIFGNLAMI ISISYFKQLH TPTNFLLSM AITDFLLGFT IMPYSMIRSV P ENCWYFGLTF CKIYVSFDM LSTISIFLHC SVAIDRFYAI CYPILYSTKI TIPVKRLLL LCWSVPGAF FGAVFSEYA DGIEGYDILV ACSSCPVMF NKLWGTLFM AGFTPGSMM VGIYKIFAV SRKHAHAINN LRENQNNQVK KDKKAAKTILG IVIGVELLW FPCFFTILL PFLNFSTPVV LFDALTWFGY FNSTCNPLIY GFFYPWFRRA LKYILLGKIF SSCFHNTILC MQKESE atggatcaa ctatattcc cgaagacctt tccagttgc caaaattgt aaataagatc ctgtctccc accaacgct ctttcatgt ccaggatgata atgattcgg ttatgactgg agccatgatt atccactatt cggaaacttg gtataatgg ttccatcgc gcatttcaaa cagcttcatc ctccacaaa cttctgact ctctccatgg caaccacgga ctttctcgt ggttttgca ttatgccata cagcataalg cgatcagtg agatgtctg gtactttggg gatggctttt gtaattcca caaagctt gacatgagc tcatgctgac ctccatttc cacctgtt ccatgctat ttgactgatt tatgctggt gttacccctt acattacaca accaaaatga cgaactccac cataaagcaa ctgtctggcat ttgtctgtc agttctgct ctttttt ttgtttagt tctatctgag gccgatgtt coggtatgca gagctataag atactgtg ctgtctcaa ttctgtgct ctacttca acaaatctg ggggacataa ttgtcacta calgtttct tacctctggc tccatcagtg ttgtattta ttggcaaaat ttatgttt ccaaacagca ttctctgagtc atcagccatg ttccatgaaa cacaaggggg gcagtgaaaa aacactatc caagaaaaag gacagggaag cagcgaagac actggacata ttgtcacta calgtttct tacctctggc ttgtctgttg cctgttttc ttgtctgt gattgaccca taccagact actccactcc cataactata ttggatctt tagttgtgct ccgtacttc aactctact gcaacctct taltcagtc ttmtaat calgtttca gaaagcattc aagttacatag ttgtcaggaaa aatatttag tccattcag aaactgcaaa ttgttct gaagcacatt aa MDLTYIPEDL SSCPKFVNKI LSHQPLFSC PGDNVFGYDW SHDYPLFGNL P VIMVSISHFK QLHSPTNFLI LSMATTDLL GFVIMPYSIM RSVESCWYFG	Homo sapiens

GPR57

580

190188 G Protein-
Coupled Receptor
LGR6 AB049405

DGFCCKFHTSF DMMLRLTSIF HLCSIAIDRF YAVCYPLHYT TKMTNSTIKQ
LLAFCWSVPA LSFGLVLSE ADVSGMQSYK ILVACNFCA LTFNKFWGTI
LFTTCFFTPG SIMVGIVGKI FIVSKQHARV ISHVPEITKG AVKHLKSKK
DRKAAKTLGI VMGVFLACWL PCFLAVLIDP YLDYSTPILI LDLLVWLRYF
NSTCNPLIHG FFNPWFQKAF KYIVSGKIFS SHSETANLFP EAH

ggccatgcca ggaagagcgg atcatgctgt ctggccgagctc ctctgagctc gggctgtccg ccggttccgggg ggaacctggac
ccccggacgg cttaaccggga cctcagcagctg aacaacotcca cagagctcca ggcgtggctc ttocaccacc tggctctctt
ggagggagagctg cgtctctctg gggaacatct ctacacalc ccagggagacag catctcttgg tctctacagc ctggaatatcc
tgaigtctgcca gaaacaaacag ctggggagggaaa tccccgcaga gggcgtctgggg gtagctggccga ggcctgacagtc gctggcccta
gtagtccaacc tcatctccct gggtcccggag agggagctttg agggggctgtc ctccctccggc caacctgggc tggagcagcaaa
tgcactcacg gtagatccctg tcaaggggccct caacaacctc cctggccctgc agggccaagac cctggggctc aaaccgcalca
ggccatccc ctagctacggcg ttocagaaalc taccagcct tgtgtgtgtcgt catttgcata acaaccggcat ccagcactctg
ggggaaoccca gcttcggagggg gctggcacaal ctgggagagac laggacctgaaa taataacag ctggcagggaggt tccctgtgggc
catccgggaac ctggggcagac tgcagggagact gggtgttccal aacaacacaa tcaaggggccat cccagaaag ggccttcaggg
gggaacctct gctacagacg alacacttt atgataccc aatccagttt gttggggagagat ctggcattcca gtaacctgoot
aaacttccaca cactatctt gtagtgggtgccc atgggaacalc agggagtttcc agatctaaa ggcaaccacca ggcctggagat
cctggacctg accggcgagc gcatccgggtc gcttccalcg gggtgtgtggc aaacagctggc caaggctccga gttcctggaaac
tgtctcaca tcaaatggag gtagctggcca gctggcacag gttgcaagaaa ttggagggaaa tgggctctcca acacaacggc
atctgggaaa ttggagagctga caocttccagc caggctgggtc ccttggcaagc agctggagatc agctgggagac ccataccggc
catcaacctt gtagggctctt ccaacctgca ctccctgggtc aagctgggaac tgaacagacaaa ccagctggacc atactggccc
tggctgtgagct tggggggctg algtcatctga agctcaaaagg gaaacctgtc ctctcccaagg ccttctccaa gtagcagtttc
ccaaaactga gtagtccctgga ggtgtccctat gcttaccagt gctgtccctaaa aaggggtccctt ggcaagctctt tcaaggctc
tggggcagttgg gtaggtctgaaag accttcaact gtagtggag gtagtctcaa aaggggtccctt ggcaagctctt gctcaagacag
caggagaaacca ctatgtaocag gtaacctggatg agcttccagct gtagagagggag gtagctcaaaagc caacaccccaag tgttccaggt
agccctatc caggccccctt caaggccccctt gtagtacctt ttgaaagctg gggggcatccgc ctgggtctgtt gggtccatct
gtgtgtctcc gttgtctgca atgggaactgtt gtagtggag gtagtggag cttttctg gctgggtctg cccctgtccc cc-gtgtcagt
ttgtgtgttagg tgcgtagtga ggcggccaaca cttgagctgg catttctgt gggctcttag cttcaggtctga tggcttgaac ttgtgtcagt
tctctgagga cggtagccccgc tgggagagacgg ggttagagctg ccggggcact ccgggtcttag ctagcttgg gtagtctgg gtagtggga
ccgggtctg tgcactctt gggtccgcaagctg caggtggagctg ctgggtctg ctagcttgg ctagcttgg gtagtctgg gtagtctgg
ccgggtctg gtagtctg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg
gggaatacgg gggtcccca ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg
ctgggttaga gtagtctt ctgtttctg gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
ctttggggcc gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
tgggtctt caggttggcc tccatgttgg gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
ctgggtctg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg
gggtctg ctagcttgg gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
ccctggtagc cttctgtat gtagtctt tttggtagc tttggtagc tttggtagc tttggtagc tttggtagc tttggtagc tttggtagc
ttccctcag gtagtctt cttctgtat ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg ctagcttgg
gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt
gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt gtagtctt

A Homo
sapiens

581

190188

G Protein-
Coupled Receptor
LGR6

AAG17168.1

P

Homo
sapiens

tttcttttcc tctctccccc tccggtgaaagc atgggtcgtcti ctataacaaa tacaacacaaa atcagcagcgt gtagatcata gacagatggc
ccagtacctg gctocactga tcaactctct cctgtgacca tacaacagg gtagctcttg gcttgctctt ccttggtcct tctcagctt
caccttgata ctgggctctt tcttgatc gtcgaagct gtagaacaga gaactggact ttgtctgct taagggaat gagagaaata
aagacagta aggggtggag ggttgatca
MRLEGEGRSA RAGQNLSRAG SARRGAPRDL SMNNLTELQP GLFHHLRFL
ELRLSGNHLS HIPQAFSGL YSLKILMLQN NQLGGIPAEA LWELPSLQSL
DLNYNKLQEF PVAIRTLGRL QELGFHNNNI KAPEKAFMG NPLLQTHFY
DNPIQFVGRS AFQYLPKLHT LSLNGAMDIQ EFPDLKGTTS LEILTLTRAG
IRLLPSGMCQ QLPRLRVLEL SHNQIEELPS LHRQCKLEEI GLQHNRIWEI GADTFSQLSS
LQALDLSWNA IRSHPFAFS TLHSLVKLDL TDNQLTTLPL AGLGGLMHLK
LKGNLALSQA FSKDSFPKLR ILEVPIAYQC CPYGMCAFF KASGQWEAED
LHLDEESSK RPLGLLARQA ENHYDQDLDE LQLEMEDSKP HPSVQCSPTP
GPFKCEYLF ESWGIRLAVW AIVLLSVLCN GLVLLTVFAG GPVPLPVKF
VVGAIAGANT LTGSCGLLA SVDALTFQGF SEYGARWETG LGCRTATGFLA
VLGSEASVLL LTLAAVQCSV SVSCVRA YGK SPSLGSVRAG VLGCLALAGL
AAALPLASVG EYGASPLCLP YAPPEGQPAAL LGFTVALVMM NSFCFLV VAG
AYKLYCDLP RGDFAVWDC AMVRHVAWLI FADGLLYCPV AFLSFASMLG
LFPVPEAVK SVLLVVLPL ACLNPLLYLL FNPFRDDLRL RLRPRAGDSG
PLAYAAAGEL EKSSCDSTQA LVAFSDVDLI LEASEAGRPP GLETYGFPSV
TLISCOQPGA PRLEGSHCVE PEGNHFGNPQ PSMDGELLRL AEGSTPAGGG
LSGGGGFQPS GLALLHTY

582

190414

G Protein-coupled
Receptor GPR101

AF411115

A

Homo
sapiens

atgacgtcca cctgacacaa cagcacgcgc gagagtaaca gacgacacac gtagcagcc cttccaata tcccacatcag
cctggcccca ggacatccgt gctcaacagt gctgggtatc ttctcgccg cctcttctgt cggcaacata gtagctggcgc
taggttgcca ggcgaagccg cagctgtcgc aggtgaccaa ccgtttatc tttaacctcc tegtacccga cctgtgtcag
atttgcctg tggcccccgc ggtgtggcc accctgtgc cttctctgc gcccctcaac agccacttct gcacggccct
gggtagccct accacctgt tggcttgc cagcgtcaac accattgtgc tgggtgtagt ggatcgtac ttgtccatca tccacctct
ctctatccc tcaagatga cccagcgcgc oggttaacctg cttctatg gcaacttgat tgtggccatc ctgcagagca
ctctccact ctacggctgg ggccaggtcg ccttgatga ggcgaatgct cttctctca tgaatgggg ggccagcccc
agctacacta ttctagcgt ggtgtcttc atgtcalt cactgaatg catgaatgc tgcactccg tgggttctgc tgcagccccg
aggcagcagc cttctgtga caatgtcaag agacacagct tggaaatgc agtcaaggac tgtgtggaga atgagggatga
aggaggagca agagaaagg agtagttcca agtagagat aggtttgcgc gccagcatga aggttaggtc aagggccaaagg
agggtcagaaat agaaagccag gacggcagcc tgaaggccaa agaaaggagc accgggggaca gtagagatag tgaaggcc
aggggcagc agtaggtcag agtagagcgc accgggtcca gtagagggcag catggagggt aagtagagga gcaacaaagt
tgaaggagac agtagagagg cagacaaagg tgcacagag gtaacaaagt gcaagatga ctgggtgaa gatgacatgg
agtttggga agacacalc aatticagc agtagacgt cgaaggcagc aacatccgg agagcttccc acccagttct
cgtaacaga acagcaaccc tctctgccc aggtgtccac agtgcnaagc tgaatagtg atctcatca tcaatttct ctatgtgta
tcccggggc cctactgct tttagcagtc ctggccgtgt gggtggatgt cgaacccag gtaaccagt gggtgacac
cataatcalt tggctttct tctgcagtc ctgcatccac cctatgct atggctatct gcaacagac ataaagg aaatccagga
catgctgaag aagttctct gcaaggagaa gcccocgaaa gaagatagcc acccagact gcccggaa gagggtggga
ctgaaggcaa gattgtccct tctacgatt ctgacttt tcttga

583	190414	G Protein-coupled Receptor GPR101	CAC33098.1	<p>MTSTCTNSTR ESNSHTCMP LSKMPSLAH GIIRSTVL VI FLAASFVGN I VLALVLQRKP P</p> <p>QLLQVTRNF ENLLVTDLLQ ISL VAPWVVA TSVPLFWPLN SHFCTALVSL</p> <p>THLFAFASVN TIVLVSDRY LSIHPLSY SKMTQRRGYL LLYGTWIVAI</p> <p>LQSTPPLYGW QQAADFERNALCSMIWGASP SYTILSVVSF IVIPLIVMIA</p> <p>CYSVVFCAAR RQHALLYNVK RSHLEVRVKD CVENEDEEGA EKKEEFQDES</p> <p>EFRRQHEGEV KAKEGRMEAK DGSLLAKEGS TGTSESSVEA RGSEEVRESS</p> <p>TVASDGSMEG KEGSTKVEEN SMKADKGRTE VNQSIDLGE DGMEFGEDDI</p> <p>NFSEDDVEAV NIPESLPPSR RNSNSNPPLP RCYQCKAAK VIFIHFSYVL SLQPYCFLAV</p> <p>LAVWVDVETQ VPQWVITHI WLFLLQCCIH PYVYGYMHKT KKKEIQDMLK</p> <p>KFFCKEPPK EDSPDLP GT EGGTEGKIVP SYDSATFP</p> <p>taactgtcca ccagaaagga cgtctcttg gggtgagtga acitcttcca ttatagaag aattgaaggc tgaagaactc agcctctalc A</p> <p>atgtggaaaca gctctgacgc caactctcc tgtaccatg agctgtgct gggtctatcgt taigtgtcag taagtgggg</p> <p>gggtgggtg gctgtgacag gcaacgtggg caatgtgct accctacagg ccttggccat ccagccaag ctcgtaccc</p> <p>gattcaact gctcalagcc aaotcacac tggctgalt cctctactgc acgtctctc agccctctc tgggacacc taactccacc</p> <p>tgcactggcg caccgtggcc acccttgcga gggtatttgg gctctctt ttgcctcca atttctctc catctgacc cttgtctca</p> <p>ctgggtgagca ccgtgggtgt gggtgtggcc agctttgtgc cccttggcc taattalc ctgttaccctg taigtgtcac ctgcagcttt</p> <p>gaccgcatcc gaggtccggcc ttaccacc atctcatgg gcatctact tgtgtctgg ctcagcagtg tgggtactt ctattgctc</p> <p>atccacgcc aggtcaaacg agcagcacag gcatgtggacc aatacaagt ggcacaggca agcatccact ccaacatgt</p> <p>ggccaaggact gatgaggcca tgcctgtctg ttccaaggag ctggagcga gggtatgcatc aggaaggacc agtgaaggga</p> <p>tttacttga gccagtcatg cctgtccacca ccagagacct ggaaaggggac tcaacagag tgggagacca gatacaagc</p> <p>aagagagctia agcagatggc agagaagaag cctccagaaag caicgtccaa altazaggag ccagaaagc</p> <p>tccgattct tcatgggaat ttgggaagt gactcgaatg tttttctg ttttctctg cttgtccctg agctacatcc ccttctgt</p> <p>gctcaatct ctggatgcca gatgtcaggc tcccgggtg gttcacatgc tigtgtccaa cctcacctgg ctcaatggt</p> <p>gcatcaacc tgtgtctat gcaagcatga accgccaatt ccgccaagca tatggctcca tttaaaag agggccccc</p> <p>agtttccala ggctccaltt gaactgtgac octagtcacc agatltcagg actgtctct ccagagacca agtggocagg</p> <p>taalaggaga ataggtagaa taacacatgt gggtatttc acaaatct ctcccagcc tcccaatca agtctctcca tcaattgac</p> <p>aatgtttcag ccttagacgt ccaaggagt attatzaat attatzaat gaattcttg ctttaaaaa aaaaaaata aaaaaagaaa</p> <p>aaaaaaaaa aaaaaaaa aaaaa</p>	Homo sapiens
584	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NM_020370	<p>MWNSSDANFS CYHESVLGYR YVAVSWGIVV AVTGTGVNVL TLLALAIQPK P</p> <p>LRTRFNLLIA NLTLADLLYC TLLQPFSDVT YLHLHWRTGA TFCRVFGLLL</p> <p>FASNSVILT LCLIALGRYL LIAHPKLFQ VFSAGGIVLA LVSTWVVGVA SFAPLWPIYI</p> <p>LVPVCTCSF DRIRGRPYTT ILMGIYFVLG LSSVGIFYCL IHRQVKRAAQ</p> <p>ALDQYKLRQA SIHNSHVART DEAMPGRFQE LDSRLASGGP SEGISSEPV</p> <p>AATTQILEGD SSEVGDQINS KRAKQMAEKS PPEASAKAQ IKGARRAPDS</p> <p>SSEFGKVTRM CFAVFLCFAL SYPFLLLNI LDARVQAPRV VHMLAANLTW</p> <p>LNGCINPVLY AAMNRQFRQA YGSILKRGRPR SFHRLH</p> <p>ctttgtcca gagctaaacc agtttttct ctctccacag caaatactt gacagtgtac atctctccc agctgtggc aagaagacag A</p> <p>aagctctct acaaatct ctttggaact gctgtgtccg acatctgtt cctcttttc atagtgttg tggacttct gttagaat</p> <p>ttcatctga acatgcaagt gctcaggct ccagacaaga tcatagaagt gctggaattc tcatccatcc acacctccat atggattact</p>	Homo sapiens
585	190418	Inflammation-Related G Protein-Coupled Receptor EX33	NP_065103.1	<p>LNGCINPVLY AAMNRQFRQA YGSILKRGRPR SFHRLH</p> <p>ctttgtcca gagctaaacc agtttttct ctctccacag caaatactt gacagtgtac atctctccc agctgtggc aagaagacag A</p> <p>aagctctct acaaatct ctttggaact gctgtgtccg acatctgtt cctcttttc atagtgttg tggacttct gttagaat</p> <p>ttcatctga acatgcaagt gctcaggct ccagacaaga tcatagaagt gctggaattc tcatccatcc acacctccat atggattact</p>	Homo sapiens
586	190419	G Protein-Coupled Receptor Ls190419	AJ303165	<p>LNGCINPVLY AAMNRQFRQA YGSILKRGRPR SFHRLH</p> <p>ctttgtcca gagctaaacc agtttttct ctctccacag caaatactt gacagtgtac atctctccc agctgtggc aagaagacag A</p> <p>aagctctct acaaatct ctttggaact gctgtgtccg acatctgtt cctcttttc atagtgttg tggacttct gttagaat</p> <p>ttcatctga acatgcaagt gctcaggct ccagacaaga tcatagaagt gctggaattc tcatccatcc acacctccat atggattact</p>	Homo sapiens

587	190419	G Protein- Coupled Receptor Ls190419	CAC33085.1	<p>gtacggtaaa ccatggacag gtaatacgt gctggcacc cgtcaagta ccacacggc tcalaccag ccggcacccg gaagatcatt gtaagtgtt acaacacgt cttccgtacc agcatccctt attactggg gcccaacatc tggactgag actaatcag cacccttg g calcacgtcc tcaatggat ccaactgt accgttacc tgggtccctg cttcatctc ttcatctga actaatcat tggtaacag ctacggaggga agagcaattt tggctccgt ggctactcca cgggggaagac caccgccalc ttgttaaca ttacctcat cttggcaca cttgggccc ccgcatcat catgattct taccactt algggggccc calccagaac cgtggcgtgg tgcacatcat gtccgacatt gcaacatgg tagccctct gaacacagcc atcaactct tctctactg cttcatcagc aagcggctcc gcac</p> <p>LCFRAKPVFL LSTANILTVI LSQLVARRQ KSSYNLLAL AAADILVLEF IVFVDFLLED P Homo FILNMQMPQV PDKIEVLEF SSHTSIWIT VPLTIDRYA VCHPLKYHTV SYPARTRKVI sapiens VSYYITCFLT SIPYYWPNPNI WTEDYISTSV HHVLIWHCF TVYLVPSCIF FILNSIIVYK LRRKSNFRLR GYSTGKTTAL LFTITSFAT LWAPRIMIL YHL YGAPIQN RWLVHIMSDI ANMLALLNTA INFLEYCFIS KRFRIT</p>	
588	190427	Cysteiny/ Leukotriene CYSLT2 Receptor	NM_020377	<p>aagtctcta agttgaagc gtaagctca accaacaaca ttaalgcta ttacatc aaaaatcagg aaatttaaat ttatataga atgtaatga gcatgtagta aagactaac cagtgttta aaactcaact ttcaagaaga agatagattt gctccctgt tcaltaaaac ctaagaagat gtaacagta agcaagaagg aaaaaggga atcacaaa tagcttttg tctctgtt tttaaccc agcatggaga gaataattat gtccctgcaa ccaatcatct ccgtatcaga aatgggaacca aatggcaccct tcaagcaaaa caacagcagg aaatgcacaa tgaanaact caagagagaa ttuoccaa tigtatct gataatatt ttctggggag tcttgggaaa tgggtgtcc atatagttt tcttgcagcc tlaaagag tagacatctg tgaacgttt catgtctaat ctggccattt cagatctct gttcataagc acgtctccct tcaaggctga ctatattt agaggctcca attggalat tggagacctg gctgcaggga ttatgtctia ttctgttat gtcaacatgt acagcagatt ttattcttg accgtgtctga gttgtgtgg ttccgtgcca alggttccacc cccttggct tctgcagtc accagcalca ggaagctctg gattctctgt gggtalcatat gttatcttat catgtcttcc tcaataagc tcttggagacg tggctctgag cagaacggcca gtgtcacalc algcttagag ctgaatctct ataaaatgg taaagctgcag accatgaact atattgctt gggtgggggg tgcctgtgc cattttcac actcagcalt tttatctgc tgaatctg gttctgtta aaggtggagg tcccaagaac ggggctgtcgg gttttcaca ggaaggcact gaccaccalc atcatcact tgaatctt cttctgtgt ttccgtccct atcacacact gaaggccgtc cacttgacga cagggaagt gggtttatgc aaagacagac tgcataaagc ttgggtatc acactggctt tggcagcagc caatggctgc ttcaatcct tgcctatta cttgtggg gaataattt aggcacagact aaagctgtga ctcagaazaaag gccatccaca gaaggcaaaag acaaggtgtg ttccctgt taggtgtgtgg ttgaagaagg aaacaagaat ataaggagct cttagagag accgtctct gtaatctgt gtccalcit atcatcat agtctccaaa tgaatttga ttacalcac tccacaaca tttgtattt taatatag ttgaccatta cttttgttaa taagacctac ttcaaaaatt ttatcagtg tattttcagt tgttagact taatgaaggga aaaaacctta cttaggtctt gttgggtgta aatgaagc ttgggtatc acactggctt gcaaaagcaca ttggatccta ctttttca gtaatgaac cagatcttg gccatcagg ctttctaat tcttcaaaag agccacaact tcccagctt ctccagctcc cctgtctct tcaatccctt gataatagc aactaaagc gttacttggaa gccccaagagc agaaaggaag cacatccaa gattcagggga aagactaact gtgaagaaga agctgtctt ataacaaagc agcatcaagt cccaagtaag gacagtga gaagaggggg agagggatgg gacgaagaa gaacagggga taagtggggg aaggaagaat ttcatttgc attgggaag aggttttaac acactgaagg caacctatt tctatgtt cttctgtcc aggtgtattag gaaggacagc aaaagtgaagg gggagatcg gggcatggcc ctagggaatg aaagaattgt gtaataag gaagggggat catcaaggag atgtatctca aattttctt gaagatgag ttattgtacc ttgtgtcagt tctcttccc attaatcat tgggtatggaa gccaaaata aaaagggtgc ctctgaaggat taggtgtgag cactcaagggg aaagatggga tagaggggca atagcaaaag ttgtgtcact cctgaatatic tattaacatt tccgcagaag algatagggg agatgtccc ttccctttg agataggtga gaaaacact agataggtg agagggtctt tctgtccat tgaacaaggg ctgaaggatc taccactac taaccaact accattgtac tgaacaact tgaatgcat</p>	Homo sapiens

Accession	Gene	Protein	Species	Sequence
589	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	<p>ctccctgcag ggcaagattat gccaggcaat ttacattgt tgaatccat accaagctc tgaattccat ttacagctg aagaattga agcttaaga aattaaaga cttgttaag ttacacag tagtaaga ttataaat tctgtgaga agtgggt gggtgctc ccacacata ccttgtaaa cttccaggaa gattggtga aagctgaat aaaagctgc cttctacc aattctcc ccctctcac tctacaaga aaacaaaag ttctctca ggtgttga cicalagac agtaaaagggt ggaggtgala tggcattctg aaagtagga gggactaagt cagctgcat actaac MERKFMSLQP SISVNFMEPN GTFSSNNNSRN CTIENFKREF FPIVYLIUFF WGVLGNGLSI P Homo sapiens</p> <p>YVFLQPYKKS TSVNVFMEPL AISDLLFIST LPFRADYYLR GSNWIFGDLA CRMSYSLYV NMYSSYFELT VLSVVRFLAM VHPFRLLHVT SIRSAAWLCG IIWILMASS IMLLDSGSEQ NGSVTSLEL NLYKIACLQT MNYIALVVC LLPFFTLSC YLLIRVLK VEVPESGLRV SHRKALTHI ILIIFLCF LPYHTLRVH LTTWKVGLCK DRLHKALVIT LALAAANACF NPLLYYFAGE NFKDRLKSAL RKGHPQAKT KCVFVSVVWL RKETRV A Homo sapiens</p> <p>cctgtggcc agctgtcga caaatctaa cttctcaagg actccaaaa cagagagac cagggagcctg aatggggaac gattctgca gctacagta tggggattac agcagctct cggacggcc tgtggadtc tggatggcg cctggctggc cagagaccg ctgcggtgg cccgcctcc actgtatgcc gccatctcc tggtaggggt gccgggcaat gccatgggg cctgggtggc tgggaagatg gccggcgga ggggtgggtgc caactgggtg cttccatggc cgtggcgga ttgctgtgc tggtgttc tggcatct ggcagtgcc attgcctgg gaggccatg gccgtatgt gcatgtgggt gtcgggtgct ggcctccatc atctgtcga ccattatgc cagcgctgc cttctggcag cttcagtc ggaactctgc ttctggctc tcggggctgc ctgggtgctt acgggtcagc gggcggtggc ggtgtaggtg gccctggggg cagcctggac actggcttg ctgtcacgg tggcctccg cactacccg cggctgcacc agggagcact ccagccccc ctgcaggtg tggtagaia cggcggtccc tccagcccg agaatgggt gactggccat cgggtttt ttggctctt gggggccctg gttggcggg ccagctgcca cagtgccctc ctgtctggg cagcccgagc ctggcgacag ccatgtgtgt ggggtgtt gtctgtggg caccctacca cgtctgggg ctgggtccta ctgtggcgcc gccatctcc cagggggcct ggggcgtaga cccctcatg tgggcttgc ccctgcac agctgccta atccatgct cttctgtat ttgggtgggg ctcaactcg ccggtcactg ccagctgctt gtcactgggc cctgggggag tccagggggc agggacgaaa gttggacagc aagaatoca cagccatga cctgtgtcg gagaagagag tgaaggcgtg agagacatg tgggtgtgta tcttctac tacttaca agactggctt caggcatagc tggatcagg agctcaatg tgtctatt ttattctt cttcatca cagatata tcatgact gcatgtga aggcctttt aggcactaga gatataagc tagcaaaa agacacaaat cctggcc MGNDVSVEY GDYSDLSRP VDCLDGACLA IDPLRVAPLP LYAAFLVGV P Homo sapiens</p> <p>PGNAMVAWA GKVARRVGA TWLLHLAVAD LLCLSLPL AVPIARGGHW PYGAVGCRAL PSILLTMYA SVLLLAALSA DLCLFALGPA WWSTVQRACG VQVACGAAWT LALLTVPSA IYRRLHQEHF PARLQCVVDY GGSSTENAV TAIRFLGFL GPLVAVASCH SALLCWAARR CRPLGTAIVV GFFVCWAPYH LLGLVLTAA PNSALLARAL RAEPILVGLA LAHSLNPM LFLYFGRAQLR RSLPAACHWA LRESQQDES VDSKSTSHD LVSEMEV A Homo sapiens</p> <p>atgtcggggc ctgtgtctt gggcctcagc ctctgggtc tctgcaac tggggagggg gcccatgtt gctctgaca gcaactagg algaaggggg actacgtgt gggggggctg ttcccccgg gggagggcga gggagcctgg cctcgagcc ggacaggcc cagcagccct gtgtgacca ggtacagag tgggagggcc tgggtcgggg tcaagggtgac caggtctggg gtgtctcga gctggggccg aggtggccat ctgocgtgt gtgtggcccc aggtctctt caaacggct gctctgggca ctggccatga aaatggccgt gggagagatc aacaacagt cggatctgt gccgggctg cgtctgggtt acgactctt tgalactgic tggagggcctt tgggggcat gaaagccacg ctcatgtcc tggccaaagg agggcagccg gacatggccg</p>
590	190437	G Protein- Coupled Receptor CSL2	NM_018485	
591	190437	G Protein- Coupled Receptor CSL2	NP_060955.1	
592	190438	G Protein- Coupled Receptor Ls190438	LG94114	

AQDPVKPWQL LENMYNLTFH VGGLPLRFDS SGNVDMYDYL KLWVWQGSVP
RLHDVGRFNG SLRTERLKIR WHTSDNQVRP QACAQKPVSR CSRQCQEGQV
RRVKGFHSCC YDCVDCEAGS YRQNPDDIAC TFCGQDEWSP ERSTRCFRRR
SRFLAWGEPALVLLLLLSL ALGLVLAALG LFVHHRDSPL VQASGGPLAC
FGLVCLGLVC LSVLLFPQSP SPARCLAQQP LSHLPLTGCL STLFLQAAEI
FVESELPLSW ADRLSGCLRG PWAWLVLVLA MLVEVALCTW YLVAFPPEVV
TDWHMLPTEA LVHCRTRSWV SFGLAHATNA TLAFCLFLGT FLVRSQPGRY
NRARGLTFAM LAYFITWVSF VPLLANVQVV LRPVQMGMAL LLCVLGILAA
FHLPRCVLLM RQGLNTPFEF

594 190484 G Protein-
Coupled Receptor
Ls190484 LG95579

Homo
sapiens

A

tcctgactggc tggcttctct gctcgcgccg ggccttctca ctgctctggt gggccctgctg gttcttgagc cctcactgctgg gggccctgagcc
cggggccgcc tctggccgggg tgcctgctggg gctttctct tcaaggagcag gaggctgctggc tgggtctctca agggccccc
gggtgaggaag cagaggaaggg gttggggaggg cttcaltaca gggactggggc acagactggc caggcagggcgc aggggctctgg
acgtttaggt ctgctgctgg ctggggccaca gaaactgact gttggctggggc caggaggttc agctgctggct gggctgctggg
atccgactgt gggctggggccg taggggttag ctgtgctgctg gctgtggggat ccgaltcgggg ctgggaggtg ggggttcacct
gaggctggggc caccaggatcc atctgtgact gggccctctgc catcggctct ggcagaggtg gaaocctcaga atctagctggg
gtctgtggct cagggtggcgt gaaagctggcc gggccctctgc cgcagagagagc tgcgcggaag gaaaggaagca cgggagcggcag
cagggtggcgc aggtcggcac tggccatgag gcaagaggaag gggctgagggc agctgtgag gaggatcaggg tagtctgaggt
aggaocaggcc cttccagagc aggttagccag agtagagctc ccacagggaag gccaaggtaga gcaagctggggc cagctggtag
ggcagccctca ggaocacata gggctgacaga atgtgtctgg ccacaggggc gaaagccccc caggctggcgg gctgtgtg
gggtggcag gttcgaacagg ctgtggccctg ggttagcagc tggcagagggc gaaagggcagg gaaagggcagg aagccccc
ggactccag catctcagc gacagctct cgtgttccca gaaagtcagg caggatccca ggtgtgacca ccaggaggca
ggctggggga agaacaggcca gggcagcctg aaggtgtggg ccaggaccca gaaacccggc caggacccagg ggggagggc
gactggggc tggccagggg accaggtgtg gacagggcc agcagggcagc ggtcggaggt gaggggcggcc agcagggagga
ggccggagga gtaggagcag cccatagga agtagtaga agtagtaga gaggggcagg ctgagcagga gcaagcggcag
cggatctca ggtatctggaa gggccgtgtc ggcagggaaca agtagtaga gaggggcagg ctgagcagga gcaagcggcag
acgggtgcca gctccatggc gggccctggga gcccggcagc caggccatca accatgggc tggcagggca agggcggcag
ggggccacag gaaagaccg tccagccac ctggggggga ggaagctctca tcatagct ctgtgggggg cctgtggcca
gtggcaccga ggtcagctc caggttaggt tcatgggg gttccaggag tctgtctgga caggaggtgg gttgtgggtg
aatcaatgat ggtgtgagat accgagtag ggaagagaggg tgcgtgtgcat cttcagggcaa gtcacatcc cttccgggc
cattgtatc acctttg taattatct atgcaagg ctgaggtg atgactcat ggaagctca tacaatcac ttacag
MEADLGATGH RPRTELDDED SYPQGGWDTV FLVALLLGL PANGLMAWLA P
GSQARHGAGT RLALLLSLA LSDFLAAA AFQLEIRHG GHWPLGTAAC
RFYFLWGVY YSSGLFLAA LSLDRCLLAL CPHWYPGHRP VRLPLWVCAG
VWVLATFSV PWLVFEAAV WYVDLVICLD FWDSEELSLR MLEVLLGGFLP
FLLLVCHVL TQATACRTCH RQQPAACRG FARVARTILS AYVVLRLPYQ
LAQLYLAFV WDVYSGYLLW EALVYSDYLI LLNSCLSPFL CLMASADLRT
LLRSVLSFA AALCEERPGS FTPTPQTQL DSEGTLPPEP MAEAQSQMDP
VAQPQVNPVL QPRSDPTAQ QLNPTAQPS DPTAQQLNL MAQPQSDSVA
QPQADTNVQT PAPAASSVPS PCDEASPTPS SHPTPGALED PATPPASEGE SPSSTPPEAA
PGAGP

595 190484 G Protein-
Coupled Receptor
Ls190484 ENSMPRT2619 43

Homo
sapiens

P

596	190595	G Protein- Coupled Receptor SH120	NM_016334	A	Homo sapiens
				<p>agcaccitggg aaaaaggcaga cagtgtaggg gggccctggg cccagcgtg cgtggccct ggggagtaggg aagtagaggc aggagccct ctacactc gccatgggt tccgtatga ctccagcacc atgattacct cccaaatact atttttga ttgggtggg ttttctcat ggcaccaatg ttaaaagact atgagatagc tcatgtatgt gtacaggtgta tctctcgt gacgttgca tttcttgca ccatgtttga gctcatcalt ttgaaatct tagggatatt gaaatagcagc tccgttatt ttacatgggaa aatgaaacct tgcgtaatic tgcgtatcct ggttttcatg gttgcttttt acatggctta tttatttg agcaataacc gactactgca taaacaacga ctgcttttt cctgtcctt atggctgacc ttatgtatt tctctggaa actaggagat ccccttcca ttctcagccc aaaaacatggg atctatcca tagaacaagt catcaccagg gttgggtgga ttggagtagc tctcatggct cttctttctg gatttgggc tgtcaactgc ccatactt acatgctta ctctccagg aatgtgactg acacagatat tctagccctg gaacggcgagc tgcgtgcaac catgtatattg atcataagca aaaaagaaaag gatggcaatg gcacggagaa caatgttcca gaaagggggaa gtgcataaca aaccatcagg ttctggggga atgataaaaa gttttaccac ttacgcatca ggaagtgtgaa atctatct tattcaacag gaaagtgtgag ctgtggaaaga attaagcagg cagctttttc tggaaacagc tgaatctat gctaaccaagg agtaaataga atactccaaa acccttcagg ggaaatatt taattttt ggttacttt tctattta ctgtgtttg aaaaattca tggctaacat caaatgtt ttgaltggag ttgggaaac ggaactgc acaaggagca ttgagatcac tggaaatatt ctgggaaacc aattgtatgt gaaattttg tcccaacaca tttctcat tctgttga aatacatcg tcaatocat cagaaggatg ctgatactc ttacaaagt cttttatgcc atctatgca gtaagtctc caatgtcat gtctgtctat tagcacagat aatgggcagc taattgtct cctctgtct gctgataccga atgagtatgc ctttagaala ccgcaccata alcactgtag tcttgggaga actgcaatc aacttatac accgtttgtt tgaatgtatc ttcttgta ggctctctc tagcatact ttctctatt tggctcaca aacaggcaca gaaagcaca ttggcacttg aacttaagcc tactacagac tgttagggc cagtggtttc aaaaattaga tataagagggg ggggaaaaatg gaaacaggggc ctgacattt ataaacaac aaaaatgctat ggttagctatt ttacactca tagcalactc cttccctc aggtatact atgacatga gttagcatcag ccaagacatg agaggagaa ctactcaag acatactca gcaatagca tccgtgtgg atagaggct atagggtg cggaaggagc ccaagaaact aaaggtgaaa aatacactgg aactctgggg caagacatgt ctatgttagc tgaagcaaac acgttaggtt tccgttttaa ggttacaag gaaaaggta tagctttgc ttgagatga ctatataaa tcaagagact t MSFLDSSIM ITSQILFFGF GWFVFMRLF KDYEIRQYV VQVFSVTF AF SCTMFELIIF P Homo EILGVLN SSS RYFHWKMNLC VILLVFMV PFYIGYFVS NIRLLHKQRL sapiens LFSCLLWLTF MYFFWKLGDP FPILSPKHGI L SIEQLISRV GVIGVTLMAL LSGFGAVNCP YTYMSYFLRN VTDTDILALE RRLLOTMDMI ISKKKRMAMA RRTMFQKGEV HNKPSGFWGM IKSVTTSAG SENLTIQQE VDALEELSRQ LFLETADLYA TKERIEYSKT FKGYFNFLG YFFSYCVWK IFMATINIVF DRVGKTDPTV RGIEITVNYL GIQFDVKFWS QHISFLVGI IIVTSIRGLL ITLTKFFYAI SSSKSSNVIV LLLAQIMGMV FVSSVLLIRM SMPLEYRTH TEVLGELQFN FYHRWFDVIF LVSA LSSILF LYLAKHQAPE KQMAP aggtgcagg cggcggtgctg tggagcggggg gcocggccggc cgcgcagtag atgtgactcg ggcggaaaggc cagctgtggagc gtcggcgctg cggggccggc gggggcggat gticgttgca tcaagagaga agatgagtag taccaggtg ctacacttc tctgtctt cgtgatcacc tgggtggct ctgaaaagc cagcaatcc cgaagctgtg ggtcgtggact cctccctcag tacgtgtcc tggcgact ggaagccatc tggggcattg tgggtggggc ggtggccggg gcggcgcccc tgaatcact gctcttagc ctatctcc tgggtggct ggccttalc aaggtgaaagg agaaagagag cctgtggggc ctacacttc tgttctct ggggaacccg ggccttttg ggtgtaggt tgccttalc atccaggtag acgagatcat ctgtctgtc cgccgcttcc tctggggcgt cctctttg ctctgtctt cctgtctt gaaagcagca tggcggtg ggaaggctgtt gctggcatggc acggggccccc cggggctggca gctgtgtggc ctgtgtgt gctgtgt ggttcaatgt atcatgctg tggaggtggct ggtgtgtcacc gttgtgtgtg acacaaggcc agccgtgtgc taccgagccca tggactttgt gatggccctc</p>	
597	190595	G Protein- Coupled Receptor SH120	NP_057418.1	P	Homo sapiens
598	190599	G Protein- Coupled Receptor GPC5B	NM_016235	A	Homo sapiens

atctacgaca tgggtactgct tgggtgaccc cggggggcgg cccctctcac tctgtgcccg aagttcaaga ggtgtgaaagct
gaaacggggcc ttctctca tcacagcctt cctctctgtg ctcatcgggg tgggctggat gacatgtac ctctcggca atgtcaagct
gcaagcggggg gtagcttggg acgacccac ctttggccac acgttggcgg ccaagcggcg ggtcttggc atctccacg
ccatccctga gtagccctgc accctctgc cagccctgca gtagaacaag ccacaactct tgcacacgic gcaagccaggg
atgctgggaga cggccttcga gtagagacggtg cagctgcggc gggcctatata gtagaacaag gctctctcca tggatgaaca
caatgcagct ctccgaacag caggtttcc caacggcagc ttggggaaaaa gaccocagtg cagctggggg aaaaagaccca
ggcctccgtt tagaagcaac gtagatcagc caactgtagt ggcctgtggt ctcaacgggt gtagccatcc aactgtccgg
ccaagtcaca caggaagaca ccttggtag aagactttaa gttccagaga atcagaattt ctctaccga ttggctcccg tggctgtgic
tttctgag gtagaactgg taacagttgc cgaacccagc cgtctcacag cgaagaaatt tggaaactc agccaaggggg
atttctgtata aatgtgaaca ctgacgaact gaaagagctaa caccgacgtc cggccctcc cctgcacac acacagacac
gtaataccag accaacctca atcccgcaa actaaagcaa agctaatgc aatagtatit aggtctacat gtagaattgtg
ctgggagagag ttttccac tctgggggta gtagaagacc aatttcacag ctgggtggggc agactgtgtg tgggtggggg
tgggggggtc ccaacttat cactctcc cagcaagtc tggacccag gtagccctt gtagaagtag acc gttggttga
ggacaatgg gtagcttgc accgcttc cgtgtgtgtt gcaattca ggggggtcag gtagaattgag gtaggtgtg
gtgggattcc aaggttagag ccaactgaat cgtgggggtag gctttatagc cagtagaggt gtaggggaccc tggcagtg
caagtagag ggcctcggg tgaagagtg accatcacat ttggaaagtg atcaacct gttctctta tgggggtctt gctataagt
ctatggtag aacacaggg ccggccctc cctgttagag ccataaat atttgggt ggggagcaggg tccctctc
ccttgatcat ctgcccgt tctacact acgggtgtat ctcaaatc tctccaat ttattccct atcattca agagctccaa
tgggggtcc agctgaagc cctccggga ggcaggttgg aagggcagga ccaacggcagg ttccggcga tgaatgcac
tagcagggct tcaagggttc cactagtag gtagaagtag cctctcgtc cttcacagc agtagacact cgggtctt
cgtgtctat gtagaatt cctggatgga atggtacga tgggtttc ttgtgtt tggaggggt ggggggagat ttgtttgt
tttctcag gttccatga aacagcct ttccagcc atgtttctg tcaagttc catctgct gtagcagatca ttcttgt
attagcatt tgaacatc cggccatca aagcccccgt gttctcga ctgttgccc agcalaacct ctgacatcga tcaaaagcag
agtttaacc tgaaggcag gtagatataa atgaggggg gttctcgc agatatact atcactacat tgcctttc alaaaaactac
ccataagct taaactta aagaaaaatg aaaaaggtta gttttgggg gcccgggggag gactgaccgc ttcaagcc
agtagctg agctgagtag gttcataa acccttgat atttctaa aaaaaaaa aaaaaaaa
MFVASERKMR AHQVLTFLLL FVITSVASEN ASTSRGCGLD LLPQYVSLCD P
LDAIWGIVE AVAGAGALIT LLLMLLLVR LPFIKEKEK SPVGLHFLFL
LGTGLFGLT FAFHQEDET ICSVRRFLWG VLFALCFSL LSQAWRVRL
VRHGTGPAGW QLVGLALCLM LVQVIAVEW LVLTVRDTR PACAYEPMDF
VMALYDMVL LVVTLGLALF TLGKFKRWK LNGAFLITA FLSVLWVAW
MTMYLFGNVK LQQGDWNDP TLAITLAASG WVFVIFHAIP EIHCTLLPAL
QENTPNYFDT SQPRMRETAF EEDVQLPRAY MENKAFSMD E HNAALRTAGF
PNGSLGKRPS GSLGKRPSAP FRSNVYQTE MAVVLNGGT PTAPPSHTGR HLW
gtagccctga gtagggggca gggccggccc ctgacagccg gtagcagccg cagcagccg ggcctccggag gtaggttcgg
ctggaaagaa ccgctcgc tctccctac atgtctccga atgtatag gtagatcat agtcaagga gtagccagc
aaggaacca aataacata atgaaagca aattaaag gtagatcat agtcaagga gtagccagc
agagagaga aatgaagca ggtttatc atgtgtat cagcaggtct tctgaaat taacaaaaa tatgactgt cttctcag
agagctgtc tttagag cagtagcgc aaacaaacca ggcctagag gtagatc tgtattct tgcatacti gtagaatai
tataataat ccttacta gtagagaga gaaaaaac cgtcaaat ttatgcat ttactagca ttgtgtac

Homo
sapiens

P

599 190599 G Protein-
Coupled Receptor
GPCR5B NP_057319.1Homo
sapiens

A

600 190602 G Protein-
Coupled Receptor
GPCR150 NM_014373

601	190602	G Protein- Coupled Receptor GPCR150	NP_055188.1	<p>tittacttiti ggtaaacatt tccattatit tgiatticag ggattitigra cittuaagca ttaggitcac taaataccac atctgoclat tactcaaat tatttctti actiaaggct ttttgcatia tccagtttic ctgacagcti gtagagatta ttgocitgaat tictataaa caaccaagct ttcattiaag tgcataaat tatttatt ctthacagta attuaatt ggatticagt ccttgcttat gttttggagag accagagccat ctaccaaaagc ctgaaggagcac agaatgctia tctcgicac tgcctttct atgcacagcat tcaagagttac tggctgcat tittcatggt gattgattita ttgttagcti tcaataaccig ttgggaagaa gttactacti ttgtaacagggc tatcagggata acttccata tgaatgaac tatctatit tttcttiti catccacac cagtatacti gttgaagacta aaaaaatit ctatccaag cctatigcti gttticag ttacttggtia ccatlgttac tactcaggt aatcattgt ttactaaag ttacagttcc agcatatatt gtagatgaata ttoccttggti atactgtic aatagtttic tcatgttac agtgiattgg ttaattgic acaaagcttaa tttaaaagac atttgattac cttttgatcc attgtcac ttgaagtgcti gctcatcc acttaaat cctaactig agcaaatga aagagcttata tcaataatga tttgttaata ttataata aaggtttacag ctgtcataag atcataatt tatgaacagaa aagaaacticag gacatatata aaaaaaact gaactaaac aactttgccc ccttgaciga tagcatitca gaattgtcti ttgaaggggc tatccaggti attaaatagt gttttattt aaaaaataaa taattccaag aagttttat agttatticag ggacactata ttacaaatit tacttgta ttacacataa aagtgataag agttaacatt tggctatact gattgttg tttactcaaa aaactactgg atgcataactg ttatgaat ctgagattic actgcaact ttaagatac aactataaa ttattata atgttcaaat gtaagcaaga aaaaaaaa</p>	P	Homo sapiens
				<p>MTALSSNCFS FQYQLRQTNQ PLDVNYLLFL IILGKLLNI LTLGMRKNT CQNFMEYFCI SLAFVDLLLL VNISIL YFR DFVLLSIRFT KYHICLFTQI ISFTYGFLHY PVFLTACIDY CLNFSKTKL SFKCQKLFYF FTVLIWISV LAYVLGDPAL YQSLKAQNAV SRHCPFYVSI QSYWLSFFMV MILFVAFITC WEEVITLVQA IRITSYMNET ILYFPSSHS SYTVRSKKIF LSKLVCFLS TWLPFVLLQV IIVLLK VQIP AYIEMNIPWL YFVNSFLIAT VYWFNCHKLN LKDIGLPLDP FVNWKCCFIP L TIPNLEQIE KPISIMIC</p>		
602	190623	Melanopsin	AF147788	<p>ggttccacc catagagaca cagctttcac cagggacagc ttgggacagca gtagctatag gtagacatcig gaggctgagg cttccacagc ggocctctcig gcttccattgg atggcagagcti cggggcagagc gaggctgcccag gttgggtgtgtg gtagcaaaagg tttggagagcaa gaggcggccatg ggggagocctcc ccaagtgggagc agtagggacag gtaggtgagggg gttggggcccti gtaggtgagcti cagttgtcac cgtcaacggcti gtaggtgtcacg gcccaggtgag aagggagcatt gtaggtgtgag acgtggggcti ccaaaaggccc caggctggggg gttccgagtc ctgtgacti tccctgtgag gctcctttga gggctgtggc aocctgggta tgggtattcc cggctcagti gtccacctga caagcacttc tccctggagc tccgtgcti gctccatcac ctggcacccti tcttaattag caggtgtgtgag agtgggggtcc acattgtatg gtagcgtgtgtg ttgactcaga attgctccca gctgtgtgagga attgttaaac cccatcata aaacgcaagc agctgggcatit gaggcttagggg acagaaagaa aaggcggccc ctacagctca cccctggccc aggggtggct ctgtgtgagcca aaggccctgaa gttgggaagagc ctacaggtgag aggcagctcig agccatgggic ttggcagctcigc agggaaatata gtccccgctc ccaagtgtgagc tggctccacti tctctgtc aaacctggggc ctccaggtgag actgtttgtia aagactggggg gaaactctgg aaggtgtgtgtg alactctgti ccactccagc gctcctgtgtg gtagggcttag cccagagcagc cctccctggg cttaggtatga cggctggcccg gttgggctcc cctaaacgca gctcctgtgtg gtagggcttag cccagagcagc cctccctggg agccgtgtgti tcaagcttccc tttctccag cctcctgag ctccctaaag acagggggcag ggggagggccc ggggtgcccct ccactctga catccagica acttggtatca gggctgtcagc cctgggtgtg tttctgggag ctcccaata aggttttaaa aaactttat actttaaaa ttctgtccgg gcccaggtggc tccagctgti aatcctggca ctgtgtgtgag ccgtgtgtgtg ttgtatccct gtaggtcagga gttcgtgagct agccctggcca acatgtgtgaa cttctgtccc tgcataat acanaaatia gcccaggtgtgtg gtgtgtgtgt cctgtatcc caggtatctg gtagggctgtg gtaggtat tgcctggagc ttggagggcgg aaggtgtgtgtg gagctgtgag tgcacattg cactccagc ttgggtgtgag agcaggtatc tctcaaaa aataaataa aaaaaataa actttat caaaaaagccc cctgtgtgag tgaatcac cttctgtgac atctctgtg tgtctccatc tggtaagggg</p>	A	Homo sapiens

[illegible]

[illegible]

[illegible]

604	190627	G Protein- Coupled Receptor GPR41 & GPR42	NM_005304	<p>GTWAAA WVPL PTVDPDHAH YLTGTVILLV GLTGMLGNLT VYTFCSRSS LRTPANMFII NLAVSDFLMS FTQAPVFFTS SLYKQWLFGE TGCEFYAFCG ALFGISSMIT LTAIALDRYL VITRPLATFG VASKRRAAFV LLGVWLYALA WSLPPFFGWS AYVPEGLLTS CSWDYMSFTP AVRAYTMLLC CFVFFLPLLI IYCYIFIFR AIRETRALQ TFGACKNGE SLWQRQLQS ECKMAKIMLL VILLFVLSWA PYSVALVAF AGYAHVLTPT MSSVPVAVIAK ASAIHNPIY AIHPKYRVA IAQHLPCLV LLGVSRHSR PYPYSRSTR STLSHTSNL SWISIRRRQE SLGSESEVGW THMEAAVWG AAQANGRSL YGQGLEDEA KAPPRPQGHE AETPGKTKGL IPSQDPRM</p> <p>atggatacag gccccgacca gctctactc tccgggcaac acgtggtcgt ctctcgggtg tacccttca ctctctcgtt ggggctcccc ctcaacctgc tggcccttgggt ggtctctggtt ggcacagctgc agccgcggcc ggtggccggtg gacgtgctcc tgcctcaact gacccctcgc gacctgctcc tgcctcgtt cctgctcttc cgcattggtg aggcagacca tggcatgcac tggccctcgc ccttcaact ctgccacatc tcttgattca tcttcttca caccatctat ctacccgcc tcttccggc agctgtgagc attgaacgt tctgaagtgt gggccaccca ctgtgtgata agaccggcc gaggctgggg caggcaggtc tgggtgaggtt ggcctgctgg ctgtggcct ctgtctacgt cagcgtgtgt tactgtatag aattctcagg ggcacatctcc cacagccagg gcatcaatgg gacctgtac ctggagtcc ggaaggacca gctagccalc ctctcggcc tgcggctgga gattggctgtgt gctctttg tggctccgt gatcalacc agctactgt acagccgctt ggtgtgtatc ctggcagtag ggggacacca ccgccggcag aggagggtgg cggggctgtt ggcggccag ctgtcaact tctgtctg ctggggcc tacaacgtt ccatgtgt gggctatc tgcgggaaa gccggctg gaggatctac gtagcttc tcaacctt gaactcctt gtcgacct tgtacta ctctctcc tccggctc aagccgact tcaaggct ctgaggaggt tgtgtgggt ctggggccag tggcagcagg agagcagcat gtagctgaag gtagcagaagg gaggggagga gcaaggagagc gaccgacag ctgaaagaa gaacagtaa cactcacagg gctgtggaac tggggccag ggggctgtg ctgaagcta g MDTGPDSYF SGNHWVFVSF YLLTFLVGLP LNLALVVFV GKQLRRPVAV DVLLNLTA S DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFTIV LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPILIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNLF VCFGP YNVSHVVGVI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHEL LRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTSE HSQGGTGGQ VACAES caagactgt ctctcgc gactaaca gattggagcc atggcttgg agcagaacca gtcacagat tattattag aggaaaaga atgaatggc actatgact acagtcaata tgaactgac tgaatcaag aagatgtcag agaattgca aaagtctcc tccctgatt cctcaata gttttgtca tggactgc aggcattcc atggtagtgg caattatgc clattacaag aaacagagaa ccaaaacaga tgtgtalc ctgaattgg ctgtagcaga ttactct ctatcttc tgcctttt ggcgttaat gcatgtcag gggtgtttt agggaaaata atgtgcaaaa taactcag ctgtacaca ctgaactt ctcttggaat gcatgtctg gctgtatca gcatagacag atatgtggca gtaactaaag tccccagcca atcaggagtg ggaanaacct gctggatcat ctgttgtt gtctgtagtg ctgcatctt gctgtagcata cccagctgg tttttatc agtaaatgac aatgttaggt gcatcccat ttccccgc taactaggaa calcaigaa agcatgtat caaatgtcag agatctgcat tggatttga gtaaccttc ttattagg ggtgtgtac ttatcacag caaggacact catgaagatg ccaaacatta aaatctcag acccttaaaa gttctgtca cagctgtat agtttcat gtactcaac tgcctataa callgtcaag tctgcogag ccatagacat catctact ctgatcca gctgcaacat gagcaaacgc atggatctcg ccatccaagt cacagaagc atgcactct ttacagctg cctcaacca atcctttag</p>	Homo sapiens
605	190627	G Protein- Coupled Receptor GPR41 & GPR42	NP_005295.1	<p>MDTGPDSYF SGNHWVFVSF YLLTFLVGLP LNLALVVFV GKQLRRPVAV DVLLNLTA S DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFTIV LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPILIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNLF VCFGP YNVSHVVGVI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHEL LRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTSE HSQGGTGGQ VACAES caagactgt ctctcgc gactaaca gattggagcc atggcttgg agcagaacca gtcacagat tattattag aggaaaaga atgaatggc actatgact acagtcaata tgaactgac tgaatcaag aagatgtcag agaattgca aaagtctcc tccctgatt cctcaata gttttgtca tggactgc aggcattcc atggtagtgg caattatgc clattacaag aaacagagaa ccaaaacaga tgtgtalc ctgaattgg ctgtagcaga ttactct ctatcttc tgcctttt ggcgttaat gcatgtcag gggtgtttt agggaaaata atgtgcaaaa taactcag ctgtacaca ctgaactt ctcttggaat gcatgtctg gctgtatca gcatagacag atatgtggca gtaactaaag tccccagcca atcaggagtg ggaanaacct gctggatcat ctgttgtt gtctgtagtg ctgcatctt gctgtagcata cccagctgg tttttatc agtaaatgac aatgttaggt gcatcccat ttccccgc taactaggaa calcaigaa agcatgtat caaatgtcag agatctgcat tggatttga gtaaccttc ttattagg ggtgtgtac ttatcacag caaggacact catgaagatg ccaaacatta aaatctcag acccttaaaa gttctgtca cagctgtat agtttcat gtactcaac tgcctataa callgtcaag tctgcogag ccatagacat catctact ctgatcca gctgcaacat gagcaaacgc atggatctcg ccatccaagt cacagaagc atgcactct ttacagctg cctcaacca atcctttag</p>	Homo sapiens
606	190701	C-C Chemokine Receptor 11	NM_016557	<p>MDTGPDSYF SGNHWVFVSF YLLTFLVGLP LNLALVVFV GKQLRRPVAV DVLLNLTA S DLLLLFLPF RMVEAANGMH WPLPFLCPL SGFIFFTIV LTALFLAAVS IERFLVAHP LWYKTRPRLG QAGLVSVACW LLASAHCSVV YVIEFSGDIS HSQGTNGTCY LEFRKDQLAI LLPVRLEMAV VLFVVPILIT SYCYSRLVWI LGRGGSHRRQ RRVAGLLAAT LLNLF VCFGP YNVSHVVGVI CGESPAWRIY VILLSTLNSC VDPFVYFSS SGFQADFHEL LRLCGLWGQ WQESSMELK EQKGEEQRA DRPAERKTSE HSQGGTGGQ VACAES caagactgt ctctcgc gactaaca gattggagcc atggcttgg agcagaacca gtcacagat tattattag aggaaaaga atgaatggc actatgact acagtcaata tgaactgac tgaatcaag aagatgtcag agaattgca aaagtctcc tccctgatt cctcaata gttttgtca tggactgc aggcattcc atggtagtgg caattatgc clattacaag aaacagagaa ccaaaacaga tgtgtalc ctgaattgg ctgtagcaga ttactct ctatcttc tgcctttt ggcgttaat gcatgtcag gggtgtttt agggaaaata atgtgcaaaa taactcag ctgtacaca ctgaactt ctcttggaat gcatgtctg gctgtatca gcatagacag atatgtggca gtaactaaag tccccagcca atcaggagtg ggaanaacct gctggatcat ctgttgtt gtctgtagtg ctgcatctt gctgtagcata cccagctgg tttttatc agtaaatgac aatgttaggt gcatcccat ttccccgc taactaggaa calcaigaa agcatgtat caaatgtcag agatctgcat tggatttga gtaaccttc ttattagg ggtgtgtac ttatcacag caaggacact catgaagatg ccaaacatta aaatctcag acccttaaaa gttctgtca cagctgtat agtttcat gtactcaac tgcctataa callgtcaag tctgcogag ccatagacat catctact ctgatcca gctgcaacat gagcaaacgc atggatctcg ccatccaagt cacagaagc atgcactct ttacagctg cctcaacca atcctttag</p>	Homo sapiens

607	190701	C-C Chemokine Receptor 11	NP_057641.1	<p>ttttttggg agcatcttcc aaaaactacg ttatgaaagt ggccaaagaaa tatgggctct gggaagagaca gaagacaaagt gtggagagagt ttcttttga ttctgagggg cclacagagc caaccagtagc ttatggatct taaaggtaaa actgctctgc ctttgcttg gatacataig aatgaltgt tccctcaaa taaaacatc gcaattatc gaaactcaaa tctcagagc cgtgggtgca actataata aagaatgggt tggggggaggg gggggaata aagggcaaga agaggaataa agataataa tgcataaac atgaaaaa aaatgaacaa tataggaaaa taattgtaac aggcataagt gaataaactc ctgctgtgaac gaagaaagagc ttgtgtgtga taatttgta tcttggtgc agtgggtgtt atacaatc acacaagtg taaaatgaca cagaactata tacacacatt giaccaatt caatttccg gtttgacat tatagtataa ttatgtaaga tgggaacctt gggggaacct cccactatgc tataagttag gccactataa acagattat acttctgtg aattataat aattcaaaa taaaacaagt taaaaaaaa cccactatgc tataagttag gccactataa acagattat aaaagggttc atgtaaaaag gcaattataa ttattttaa ttactaaat gaacgattc ccgcaataa ttagtact gaataagtat gcagcagaac lccaactatc ttatttctg ttattttaa attgtaatg aattttataa aatccacctc ctcacaaaaa gcaataaaaa aaaaacaaac tataaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa</p> <p>aaaaa MALEQNQSTD YYEENEMNG TYDYSQYELI CIKEDVREFA KVELPVFLTI VFVIGLAGNS MVVAIYAYTK KQRTKTDVYI LNLAVADLLL LFTLPFWAVN AVHGWWLGKI MCKITSALYT LNFVSGMQFL ACISIDRYVA VTKVPSQSGV GKPCWUCFC VWMAALLSI PQLVFTVND NARCIFFR YLGTSMKALI QMLEICIGFV VPFLIMGVCY FITARTLMKM PNKISRPLK VLLTVVIVFI VTQLPYNIVK FCRADIYS LITSCNMSKR MDIAIQVTES IALFHSLNLP ILVYFMGASF KNYVMKVAKK YGSWRRQRQS VEEFPDSEG PTEPTSTFSI</p>	P	Homo sapiens
608	190705	G Protein- Coupled Receptor SALPR	NM_016568	<p>gaattgggga gtaatggcc agtgcocccag tgaocgggg agacggagag gggaagtctg cgttgatcat aaggacatag ggactccgag ctgggctctga gaaccttgg acgocggagtg ctgoccttac gggctgcatc cctcaactc gctccaaagc agccgcigag ctaactctt ggcctcagggc cgttcgcctgc gcgccaggac gcgttagta cccagtctct gggctctctc ttcagtagct gctgtgaaag ctcacagca cgtccgcag gctagcctgg caacaaaaa ggggttaaac ggtttactt aggtctgtc cccagaaaca tgaactagag gtactctgc agcagatagg ccgatggcag caccatagcc accatgaata agggcagcagg cgggggaaca cttagagaac tctcagctt ggtcccgag ctctggaggg cggccaacac gaagtgtaac gcgtcgtgc agctccggga ctgtgtgttg gtagctgggg tggagtgtc ggaacggcgc ccggccaaggac altcccggg cagcggcggg gcaagagagc cggacacaga gggccggggg cggattctca tgaagtggt gtagtggtgt gtagtggtcc tgggggtggc gggcaacctg ctggtctct acctatga gtagcagcag ggtcggcgga agtctctat caactcttc gtcaccaccc tggcgctgac ggaatttcag ttgtgtctca cctgacct ctggggcggtg gtagaacgtc tggactcaa atggcccttc ggcgaaggcca tgtgttagat cgtgtccatg gtgacgtcca tgaacatga cggcagcgtg ttctctca ctgccaatgag tgtgacgcgc taocattggg tggcctcggc tctgaagag caccggaccc gaaggaacagg ccggggcgag tgcctggccc ggaagcctgggg ggaacagctgc tgcctcggc ccaaggcgct gttgtgtgtg atctggggctt tggccggct ggcctcgtgc cccaatgcca ttctccac cagcgtcaga gtagtgggcg aggaagctgtg cctgtgtgtgt ttccgggaca agtgtgtggc ccgcgacagg cagtctggc tggggcccta ccaactggcag aagtggtctgt tgggtcttct gctggcgctg gggcatctta tctgtgtcta cctgtgtgtg gttgcgttca tgcgcggcgc ccgcggcgcc ggggaacaaa gtagggggcgcc gggaagccgga ggaagcccca ccgggaagcag cggccgggaga ctgtcgaagg tcaacaaatc agtgaacalc gttgtctgt ccttctct gttgtgtgtc cccaacagg cgtcaccac ctggagcalt ctatcaagt tcaacgggt ggccttcagc caggaagatt tctgtgtcca ggtatagcg ttccgtgtga ggtgtgtctt agtcactcc aacagcttgc tcaacccgt ccttactgc ctggtggccc gcgaagtccg caaggcgctc aaggagccgc tgtgtgtctt cgtgtgtct tctgatacca gcaatggccc ctaccggc actaacagg cgggaacaga ggaatcagggg ctgcaaggccc cggcgcgccc ccacggcgcc</p>	A	Homo sapiens

609	190705	G Protein- Coupled Receptor SALPR	NP_057652.1	<p>ggcagcagg accgtgctcta ctaccacot ggcgtctgtgg tctacagcggg gggggcgtctac gacgtgtctc ccagcagctc tgcctactga cgcaggctc agggccagggg cgcgcgcgtc ggcacagggtg gcttccccg ggcggtaaag aggtgaaggg atgaaggagg gctgggg</p> <p>MQMADAATIA TMNKAAGGDK LAELFSLVPD LLEAANTSGN ASLQLPDLWW ELGLELPGDA PPGHPGSGG AESADTEARV RLISVVVYVW VCALGLAGNL LVLYLMKSMQ GWRKSSINLF VTNLALTDQ FVLTLFWAV ENALDFKWP GKAMCKIVSM VTSNMNYSV FFLTAMSVTR YHSVASALKS HRTRGHGRGD CCGRSLGDS CFSKALCVW IWALAALASL PSAFSTTVK VMGEELCLVR FPDKLLGRDR QFWLGLYHSQ KVLGFLVPL GHILCYLLL VRFIADRAA GTKGGAAVAG GRPTGASARR LSKVTKSVTI VVLSFFLCWL PNQALTTWSI LIKFNAPFS QEYFLCQVYA FVSVCLAHS NSCLNPVLYC LVRREFRKAL KSLWRIASP SITSMRPFTA TTKPEHEDQG LQAPAPPHAA AEPDLLYVPP GVVYSGGRY DLLPSSAY</p>	P	Homo sapiens
610	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NM_018970	<p>ggcacaggga tttactgt gctcaagt cagattata ctgtagagaa gattttat ttgtttca ttaacagatt attataagc aaaaagcatg cagaaaaaga agcagacgti ttaattggg aattatga agcgtgtctg ctagtittgg gtagaggaac tgggaagtig tigtataaa ttataca cctcacaaa caaaactcti cggaaatigt aaaaataaga aatgcattgat tctagaggca ttctaaagca cccagctgic aggtttgtg ggtctgtgg taltatcca cgtttggac tggtagggc ttactggag ctccattct ggaaagcctt acagactga ggaatatcag actgcgaac accgggaacg gttcttgc agcacagaag caatctct cccccttc gcatattct atggcaaac aag'gggaaga aagagggaag catgactgca gatgatca gttctttg tggattat ttcaataa atgtatggat ctatcttc ctgttcta tatagact atgagactg actgaggtc tatcttatc ctccatcat ctatggcga ctatggcat cagactgaca acatttgc aatctctg ccttaacac cttctgaa actgactcc ttgggttca taataggagt cagcgtgtg ggcacacct ctaicctat ttgtatgg aagataaaga cttgtcatag agcacctac tacttccgt tggactttg ctgtcagt atctcagt ctgcattt ttccattt gtttcaact ctgtcaaaa tggcttacc tggactatg ggcactgac tggcaagtg atgcttct tgggggttt gttctgttc cacactgt tcaigtct ctgcatagt gtcacagat actatgat cgtccatcac cgttctata caaagggt gacottttgg acgtgtctg ctgtatctg tatgtgtgg actgtctg tggcaltgc attccccg gtttagacg tggcactta ctatcat agggggggag atcaatgcac ctccaacac cgtcttca gggctaalg ttactaga ttatgtct ttctgtct catctcta gccacacg ttgttact caagtgtata ttttctgc acgtatgaag aaaaatgaag ccagtccagt ttgtagcag agtcagccag aactggacti ttatgttcc tggagccagt ggcagggcag ctgtccaatg gcttagcagg ttgggaagg gtcacacac accacottg ctggggcata ggcaaaalg aaacacaca ggcagaaga ggtatttgg cttagacgag tcaaaalg agaaagaat cagcaggaag ttctataa tgaatttct gttttaac ttgtggggcc ctacttgg gtcctgttat tggagaggti ttgcaagagg gctgtatga ccaggggggt tttaacagc tgcgtctgg atgatttgg ccaagcagg aatcaatcti ttgtctgca ttittcaaa cagggggtc aggggtgti tcaagacac ccttttacc tgcagaanaa caggttacc aaggggaact tactgtgtat tatggggag catctgtaaa ttttagcct tgggaact aacttctt gctgtgcaat tggggccat agccattt tgaagaaga ttcaagaatg gaatcagcag tttaaggat tggggcaaca ttctgcagtc ttggcaatag ttacattat atctattt aaatctaga gttatctgc tgaatgcag caaagggt tttaataaga ggggaactgaac cactgacctt agttttta tgggttcaaa aactagaata tgaagagtag aggtgtctag talcaggtct aatgtctg tatgtcata catatgaaga aacatcaaa aacaatagc attggacac ttaataat aagt'gacat gtaggaatg tgtgataa aactattt agaggttga agactttaa acatttala ctacttgt ttgcaaga ctaaaat tggggacta aggtactga atccactaa gacgtgcaa tgaatttgg gatatcaca cttaaaac cgtctgttaa gttctgggga gcaatcaaa gcatatatt ggttcaatt agagttact ttttgtat taatacatg ctattttaa</p>	A	Homo sapiens

611	190711	G Protein- Coupled Receptor GPR85 (SREB2)	NP_061843.1	<p>alaccactt cctcatctac tagtaagatt gctagcatgg aactglatia tgggtttt tggattgg tataagtt ttccaatca ttatattt acaaatgcta galatggic tggaggagca catlaatggt accagcgtt cacaacigag cagttctaat aatgcagaat aaatacatgt tgccttaag ggtatctag tatcctat cttaatgc actggagca atagccaagg gaaatcaaat cagttaactgg tcalggtcat gcatcaaaa gfgcaggaa galcatat tacttttcc ttitttcc acatggttg aaacttaaa gacacatcac tgaataaag agattttt ctacgggig ciacccttc taaactgic taagaagcag gcagtgatg tatgttata tttaagica gctgcaagg ggaaccaca gccttagiat gacatcctgc acaattgg aagcattat tctatgaag gcacagict gttatadi tctgcacatt cagtgatg gtaattaaa ttattcagt tttaactgt gaaagctat attatgatt ctggatttt agaaalacal tagatctgt gtagtctatt cttaagata cagatgig aactcaala taaagtga ttgccaaa ttacocgig tagocgttta attttctga aataagttt acatttgg cacatacaa cgtttttt aattgggag gcaagcaca aciaaggaa ctacgtttat taigtttgg cttttgat cttagctca ctatctca gactggaaat gtaggaat taatcaaat aatgctgata aactgacata atatatcig laaagcaatt atttggtat ttattaat catccctcia ttacttaa algccagtag tattagaga tggtagccig cttagttaat tggctcagaa tttaataa aacatcacac tttaattgg agcatagiac calagaaatt tggggttcia aatatacaac ttgtaagaag aatgggttac actaactta tgaacaaact agaaaagtt attatttgg ttgcttct gttgtttg ttattgttg gttttggga agttattt ttnttggga ttgataat aagattagga atcaataac acagaattcc atattgctat agtactcig taagaagaat atcaataaa ataggaataa taaatcaag aatgtttca atgttaaaa aaaaaaaa aaaa MANYSHAADN ILQNLPLTA FLKLTSLGFI IGVSVVGNLL ISILLVKDKT LHRAPYYELL DLCCSDILRS AICFPFVENS VKNGSTWYTG TLTCKVIAFL GVLSCFHTAF MLFCISVTRY LAIAHHRFYT KRLTFWTCLA VICMVWTLVS AMAFPVLDV GTYSFIREED QCTFQHSFR ANDSLGFMLL LALLLATQL VYLKLIFFVH DRRKMKPVQF VAAVSQNWTF HGPASQQA ANWLAGFRG PTPPTLLGIR QNANTTGRRR LLVLDEFKME KRISRMFYIM TFLFLTWGP YLVACYWRVF ARGVPVPGGF LTAAVWMSFA QAGINPFVCI FSNRELRRCF STLLYCRKS RLPREYCVI</p>	P	Homo sapiens
612	190725	G Protein- Coupled Receptor GPR26	LG93120	<p>aggctaggg agctcttc caggggcc atcggtccc actgggggggt gctgccaag tgcgtggct acagaaggc cgcatccgac ccccttgg actcttact ggcacaccag taocgcaaaa gctgcaaggga gattcigaac aggtctcgg acagagctc catccactcc tctggcctca caggcactc tcacagccag aacattcgc cgggtctga g MNSWDAGLAG LLVGTMGVSL LSNALVLLCL LHSADIRRQA PALFTLNLTC GNLLCTVNM PLTAGVVAR RQPADRLCR LAFLDTFLA ANSMLSMAAL SIDRWVAVVF PLSYRAKMLR RDAALMVAYT WLHALTFPAA ALALSWLGFH QLYASCTLCS RRPDERLRF VFTGAFHALS FLFSFVLCC TYLKVARFHC KRIDVITMQT LVLLVDLHPS VRERCLLEQK RRRQRATKKI STFIGTFLVC FAPYVITRLV ELFTVPVIGS HWGVLSKCLA YSKAASDPFV YSLLRHQRK SCKEILNRL HRRSHSSGL TGDSSHQNIL PVSE</p>	A	Homo sapiens
613	190725	G Protein- Coupled Receptor GPR26	LR26	<p>atggccaaca ctacggaga gcctgagggag gtgagcggcg cttgtccc accgtccgca tcaagtatg tgaagctgt actctggga ctgattatgt gcgtgagcct ggccggggaac gccatctgt cccgtctgt gctcaaggag cgtggccctgc acaaggctcc ttactctc cgtctggacc tggcctggc cgtatggcga cgtctgcgc tctgtccc cttgtgctg gctctgig ggcaggctc ttcatggacc ttcatggcac tcatgtgcaa gatttggcc ttatggccg tgccttgg ttccatgcg gccctcagc tgtttctgat cagcgtacc cgtatcagg ccacggcca ccacgcttc tacggcaggc gcatgacact ctggacatgc ggcgctgca tctgcatggc ctggaccctg tctgtggcca tggccttccc accgtctt gacgtgggca cctacaagt tattoggag gaggaccagt gcatcttga gcatcgctac ttcaaggcca atgacacgt gggcttcatg ctatgtgg cttgtctat</p>	P	Homo sapiens
614	190741	Sreb3	NM_018969		A	Homo sapiens

615	190741	Sreb3	NP_061842.1	<p>egcagctacc cagctgct accgcaagct gctctcttc gtagtactgc accgcagat gtagccagtg cagagtgctc cagccatcag ccaggaactgg acattccatg gtcccggggc caccggccag gctcctgcca actggatgc cggcttggc cgtggggcca tgcaccaac cctgctgggt atccggcaga algggcagtc agccagccgg cggctactgg gcaaggacga ggtcaagggt gaagaagcagc tgggcccgat gttctacgag atcacactgc tcttctgt cctctgggca ccttaccg tggcctgcta ctggcagtg ttgtgaaag cctgtgctgt gcccaccgc taactggcca ctgctgttg gtagtgcttc gtccagctg ccgtcaacc aattgctgc ttcttctca acaaggacct caagaagtc ctagggactc acgccccg ctggggcaca ggaaggccc cggctccag agaacctac tggctatgt ga MANNTGEPEE VSGALSPSA SAYVKL VLLG LIMCVSLAGN AILSLVLKE RALHKAPYYF LLDLCLADGIRSAVCFPVL ASVRHGSSWT FSALSCKIVA FMAVLFCFHA AFMLFCISVT RYMAIAHHRF YAKRMTLWTC AAVICMAWTL SVAMAFPPVF DVGTYKFIRE EDQCFEHRF FKANDTLGFM LMLAVLMAAT HAVYKLLLF EYHRKMKPV QMVPISONW TFHGPATGQ AAANWIAFG RGPMPPTLLG IRQNGHAAS RLLGMDEVKG EKQLGRMFYA ITLLFLLWS PYIVACYWRV FVKACAVPHR YLATAVVMSF AQA AVNPVC FLNKLKKK LRTHAPCWGT GGAPAPREPY CVM</p>	P	Homo sapiens
616	190742	G Protein-Coupled Receptor H7TBA62	E32367	<p>gagctctgc cacagactag agcagggaag ggggggaag cggcgataga ggttagcagg aatgttaat tatcaggagc agggaacaga ctaggggcat gcccaggctc acacaggccc tcataggccc agtgttcca gggggggaaga aacagggaagc tggacttc tctcttct cctctctgc tcttagctc aaggctacg ctgctgagat gaattccaac ctgtttagt tggcactgt cccgggcat ggttaagcc tctcgtacc cttcgccac aaacaccca aactctct tgaataat attacataa atgtctatt cacatgatt ctctatgc atcagccac tctgtgaag cagctaac tgaataatt aagcaagaaa acaggcttag gggagtaaaag taactctcc agtcacacgg ctagtgaagca gcaagcttgg gactcggcag cctccgctct ttctctct ggacacctat gctgattccc tgcctatg ccacttcca gggcccctg ttggggcccc aagggaacac ttgtgcaga ggaggggagc ctctgactg ttagggaacag aggcagctct agttgggtc ctgtcatc tgggacaggg aaactccag ctctctccct ggggtggagc cttggggctg cctccatag cgggggtaact ctctcttc cctctct ctggcaltta gtagccctct tacaaggggc cgcaltgcaca tatccctgg cattcaggct gttgctctggc ctggcccacc taacccaat ctggaacaac agggaagggg tgggtgtcc ttccacac cctcccttg aggtgtgggg gttgggccaagg gctcacaga gggcccagag aaggcactaa ttctacagcc tcttccatag agccttcat ggcctctgcc agtctggcag acattgacg acctcttc tcaagccac caaltctga tgcctcga tgcacact caatattct gctctccac ccacattct ctgggccaat gctccgggag gcagtgtgt gtagtctgtag gtagctcca attcctagcc ctggagctca ggttggccc ggcctatggg cttgggggg ccaltggct gctgggaat ttggcgggg tgggggtag gtagtaactgt gcccgggag cccctggccc acctcagac acctcgtct tcaacctggc tctggcggag ctgggactgg cactcactct cccctttgg gcaagccgag cggcacctgga cttcactgg ccttcggag gttcccttg caagtaggt ctgacggcca ctgttcccaa cgtctatggc agcaltctcc tcaicacagc gctgagcgtt gctcgctact ggggtgggtggc cagtgctggc ggggccaagcca ccaactctc actctctgg gcccgaatag ccaacctggc agtgtggggc gctggctgccc tggtagaggt gccaacagct gcttccgggg tggaggggga ggtgtgtgt gttgctctt gctctgctg ttccccagc aggtgactggc tggggggccta ccagctgcaag aggtgtgtgt tgggtttcat gttgcccctt gctctgctg ttccccagc aggtgactggc tggggggccta ccagctgcaag gcaacggcgg cggcaggaaca gcaagggctgt gggcccctct gttccgcaatc tgggtggctc ctttctctc tgggtgttc ccaaccatgt ggtcactctc tgggtgtgt tggtagaggt tgaactgtgt cctgggaca gtagcttcta tactatccag acgtatgtct tccctgtcac tactgtctg gcaacagca alagctgtct caacctgtgt ctgtactgt tcttgaggcg gtagccccgg caggctctgg caggcaccit cagggtactct cgggtcgaagc tgggtggcaca aggtgtgtccct</p>	A	Unidenti

619	190743	G Protein- Coupled Receptor GPCR5D	NP_061124.1	gatcaggag gagtataa MYKDCIESTG DYFLLCDAEG PWGILESLA ILGIVVTILL LLAFLEFLMRK IQDCSQWNVL PTQLFLSV LGLFGLAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTIL CIAIGCSLLQ IIAITEYVIL IMTRGMFVN MTPCQLNVDF VLLVYVLF MALTFVSKA TFCGPCENWK QHGRLLFTV LFSIIWVWV ISMLLRGNPQ FORQPQWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LSYGTPIQP QTVDPTECF IPQAKLSPQQ DAGGV cggcagggg gggaaacctt ctgaagagtg ccttggtcac agcaccttg aagacagcca ttggccatgg gggaccaacc agaagccggc ctggagagcca ggaagggcat ccacaagacc ttggtgatg gcttgggact gctctcttc ctgtccag gggcttgggc ccaggggcat gtccacccg gctgcagagcca aggcctcaac cccgtgtact acaacctgtg tgaaccgtct ggggcgtggg gcaatgctt ggaaggccgtg gctggggcgg gcatgtcac caggttttg ctacacatca tctgtgtggc cagccctccc ttgtgcagg acacaagaa acggagccgtg ctggggacc cttgtggg accctgggg tcttgcct cgttttgc ttgtgttg agaaccgact ctcaacct gctctcggc gcttcttt tgggtgttg ttgccatct gcttcttg tctggcggct cagctttg cctcaact ctggccgg aagaacacc ggcccccggg ctgggtgtatc ttcacttgg ctctgtct gacctgtga gaggctcalca lcaalacaga gttgtgtatc atcaccttg ttggggcag tggcaggggc gggcctcagg gcaacagcag cgcagggctg gcccgtggc cccctgtg cgtcggcaac atggacttg tcatggcact cactacgtc atgtctgtc tgcctgggtg cttcctggg gctcgtggc cctgtgtg cgtctacaa cgtcgtggta agcatgggt cttgtgtc ctacacag ccacctcgt tggcattgg gttgtgtg tctgtatga tactacggc aacaagcagc acacagct cacttgggt gacccacgc tggccatgc cctgcggc aatgctggg ccttgcct ctctacgc atcccgagg tctccagg taccagctt gacaaagtc agccagagc aagacatcca ggggtgtatg taccacacc ggggcgtggg ctatgagacc atctgaaag agcagagagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat ggaagcgttg cagctaaagg gcccgtgtca ccaalacag gttacaaagg gcaagctgtg accaggtgt accagccac tgaagtgcc ctgaagcaca aagtctgc gaaaggagct tacgacatca tcttccacg gggccacggc aacaagcagg tgaaggcag tggcaactg accctggg ctgaagagat gtaactggcc cagagccacc agggcgccac accgcgaaa gacggcaga actctcagg cttagaagc cctacgtg gggactgtat cagcgtgtg ggaaggagc gggcggatt ggggagggcc ctgaaggact ggcccggc aaggagctct caggctct cctcccttg gcaaggcag aactgtgccc cagatctg aaggccctc ctctgtcca gttttgggt ggggtgtatg ggtgtccca ccactctc agtgtgtg ggtcagagga gccaaccca gctcctgccc aggtacact cggcggtac actocagcca aalagtgtc tcgggggtg ggttggcag cgtctatgt tctgtgaga ttctgcac ctcaagagac ttccaggcg ctcaaggctg gactgtct ctctgtgagg acaagggtg cctaataat acatttgc ttatataa aaaaaaaaaa aaaa MGTPPEGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT IILVASLPV QDTKKRSLIG TQVFLLGLT GLFLVFAV VFPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARN HGPRGWVIFT VALLTLVEV IINTEWLIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFLGAW PALCGRYKRW RKHGTVFLT TATSAIWWV WIVMYTYGNK QHNSPTWDDP TLALAAANA WAFVLYVIP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYOPTMALM HKVPSEGA YD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	P	Homo sapiens
620	190744	G Protein- Coupled Receptor GPCR5C	NM_018653	cggcagggg gggaaacctt ctgaagagtg ccttggtcac agcaccttg aagacagcca ttggccatgg gggaccaacc agaagccggc ctggagagcca ggaagggcat ccacaagacc ttggtgatg gcttgggact gctctcttc ctgtccag gggcttgggc ccaggggcat gtccacccg gctgcagagcca aggcctcaac cccgtgtact acaacctgtg tgaaccgtct ggggcgtggg gcaatgctt ggaaggccgtg gctggggcgg gcatgtcac caggttttg ctacacatca tctgtgtggc cagccctccc ttgtgcagg acacaagaa acggagccgtg ctggggacc cttgtggg accctgggg tcttgcct cgttttgc ttgtgttg agaaccgact ctcaacct gctctcggc gcttcttt tgggtgttg ttgccatct gcttcttg tctggcggct cagctttg cctcaact ctggccgg aagaacacc ggcccccggg ctgggtgtatc ttcacttgg ctctgtct gacctgtga gaggctcalca lcaalacaga gttgtgtatc atcaccttg ttggggcag tggcaggggc gggcctcagg gcaacagcag cgcagggctg gcccgtggc cccctgtg cgtcggcaac atggacttg tcatggcact cactacgtc atgtctgtc tgcctgggtg cttcctggg gctcgtggc cctgtgtg cgtctacaa cgtcgtggta agcatgggt cttgtgtc ctacacag ccacctcgt tggcattgg gttgtgtg tctgtatga tactacggc aacaagcagc acacagct cacttgggt gacccacgc tggccatgc cctgcggc aatgctggg ccttgcct ctctacgc atcccgagg tctccagg taccagctt gacaaagtc agccagagc aagacatcca ggggtgtatg taccacacc ggggcgtggg ctatgagacc atctgaaag agcagagagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat ggaagcgttg cagctaaagg gcccgtgtca ccaalacag gttacaaagg gcaagctgtg accaggtgt accagccac tgaagtgcc ctgaagcaca aagtctgc gaaaggagct tacgacatca tcttccacg gggccacggc aacaagcagg tgaaggcag tggcaactg accctggg ctgaagagat gtaactggcc cagagccacc agggcgccac accgcgaaa gacggcaga actctcagg cttagaagc cctacgtg gggactgtat cagcgtgtg ggaaggagc gggcggatt ggggagggcc ctgaaggact ggcccggc aaggagctct caggctct cctcccttg gcaaggcag aactgtgccc cagatctg aaggccctc ctctgtcca gttttgggt ggggtgtatg ggtgtccca ccactctc agtgtgtg ggtcagagga gccaaccca gctcctgccc aggtacact cggcggtac actocagcca aalagtgtc tcgggggtg ggttggcag cgtctatgt tctgtgaga ttctgcac ctcaagagac ttccaggcg ctcaaggctg gactgtct ctctgtgagg acaagggtg cctaataat acatttgc ttatataa aaaaaaaaaa aaaa MGTPPEGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT IILVASLPV QDTKKRSLIG TQVFLLGLT GLFLVFAV VFPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARN HGPRGWVIFT VALLTLVEV IINTEWLIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFLGAW PALCGRYKRW RKHGTVFLT TATSAIWWV WIVMYTYGNK QHNSPTWDDP TLALAAANA WAFVLYVIP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYOPTMALM HKVPSEGA YD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	A	Homo sapiens
621	190744	G Protein- Coupled Receptor GPCR5C	NP_061123.2	gatcaggag gagtataa MYKDCIESTG DYFLLCDAEG PWGILESLA ILGIVVTILL LLAFLEFLMRK IQDCSQWNVL PTQLFLSV LGLFGLAF AF IIELNQQTAP VRYFLFGVLF ALCFSCLLAH ASNLVKLVRG CVSFSWTIL CIAIGCSLLQ IIAITEYVIL IMTRGMFVN MTPCQLNVDF VLLVYVLF MALTFVSKA TFCGPCENWK QHGRLLFTV LFSIIWVWV ISMLLRGNPQ FORQPQWDDP VVCIALVTNA WVFLLYIVP ELCILYRSCR QECPLQGNAC PVTAYQHSFQ VENQELSRAR DSDGAEEDVA LSYGTPIQP QTVDPTECF IPQAKLSPQQ DAGGV cggcagggg gggaaacctt ctgaagagtg ccttggtcac agcaccttg aagacagcca ttggccatgg gggaccaacc agaagccggc ctggagagcca ggaagggcat ccacaagacc ttggtgatg gcttgggact gctctcttc ctgtccag gggcttgggc ccaggggcat gtccacccg gctgcagagcca aggcctcaac cccgtgtact acaacctgtg tgaaccgtct ggggcgtggg gcaatgctt ggaaggccgtg gctggggcgg gcatgtcac caggttttg ctacacatca tctgtgtggc cagccctccc ttgtgcagg acacaagaa acggagccgtg ctggggacc cttgtggg accctgggg tcttgcct cgttttgc ttgtgttg agaaccgact ctcaacct gctctcggc gcttcttt tgggtgttg ttgccatct gcttcttg tctggcggct cagctttg cctcaact ctggccgg aagaacacc ggcccccggg ctgggtgtatc ttcacttgg ctctgtct gacctgtga gaggctcalca lcaalacaga gttgtgtatc atcaccttg ttggggcag tggcaggggc gggcctcagg gcaacagcag cgcagggctg gcccgtggc cccctgtg cgtcggcaac atggacttg tcatggcact cactacgtc atgtctgtc tgcctgggtg cttcctggg gctcgtggc cctgtgtg cgtctacaa cgtcgtggta agcatgggt cttgtgtc ctacacag ccacctcgt tggcattgg gttgtgtg tctgtatga tactacggc aacaagcagc acacagct cacttgggt gacccacgc tggccatgc cctgcggc aatgctggg ccttgcct ctctacgc atcccgagg tctccagg taccagctt gacaaagtc agccagagc aagacatcca ggggtgtatg taccacacc ggggcgtggg ctatgagacc atctgaaag agcagagagg tcaagagcag ttgtgtgaga acaaggcct ttccatggat ggaagcgttg cagctaaagg gcccgtgtca ccaalacag gttacaaagg gcaagctgtg accaggtgt accagccac tgaagtgcc ctgaagcaca aagtctgc gaaaggagct tacgacatca tcttccacg gggccacggc aacaagcagg tgaaggcag tggcaactg accctggg ctgaagagat gtaactggcc cagagccacc agggcgccac accgcgaaa gacggcaga actctcagg cttagaagc cctacgtg gggactgtat cagcgtgtg ggaaggagc gggcggatt ggggagggcc ctgaaggact ggcccggc aaggagctct caggctct cctcccttg gcaaggcag aactgtgccc cagatctg aaggccctc ctctgtcca gttttgggt ggggtgtatg ggtgtccca ccactctc agtgtgtg ggtcagagga gccaaccca gctcctgccc aggtacact cggcggtac actocagcca aalagtgtc tcgggggtg ggttggcag cgtctatgt tctgtgaga ttctgcac ctcaagagac ttccaggcg ctcaaggctg gactgtct ctctgtgagg acaagggtg cctaataat acatttgc ttatataa aaaaaaaaaa aaaa MGTPPEGLG ARMAIHKALV MCLGLPLFLF PGAWAQGHVP PGCSQGLNPL YYNLCDRSGA WGIVLEAVAG AGIVTFTVLT IILVASLPV QDTKKRSLIG TQVFLLGLT GLFLVFAV VFPDFSTCAS RRFLFGVLFA ICFSCLAHV FALNFLARN HGPRGWVIFT VALLTLVEV IINTEWLIT LVRSGEGGP QGNSSAGWAV ASPCAVANMD FVMALTYVML LLLGAFLGAW PALCGRYKRW RKHGTVFLT TATSAIWWV WIVMYTYGNK QHNSPTWDDP TLALAAANA WAFVLYVIP EVSQVTKSSP EQSYQGDMYP TRGVGYETIL KEQKGQSMFV ENKAFSMDPE VAAKRPVSPY SGYNGQLLTS VYOPTMALM HKVPSEGA YD IILPRATANS QVMGSANSTL RAEDMYSAQS HQAATPPKDG KNSQVFRNPY VVD	P	Homo sapiens

622	190745	G Protein-Coupled Receptor LGR7	NM_021634	<p>atgacatcgtg gttctgctt ctctacatc ttaattttg gaaataatt ttctcatggg gggggacagg atgccaagtg ctcccttggc</p> <p>tatttccct gtgggaacat cacaagtg tgccacag tccgacag taacgggtgg gacgactgg ggaatcaggc</p> <p>cgatgaggac aactgtggag acaacaatgg atgggtccatg caatttgaca aattattgc cagtactac aaaaagactt</p> <p>cccaatacc tttagagga gaaacacctg aatgtttgt cgggtctgg ccagtgcaat gttctggcca aggtctggag ctgactgg</p> <p>atgaaccaa ttacgagct gtccatcgg ttcttcaaa tggactgca atgctactc agtggaaact aataagaag ctctctctg</p> <p>attgttcaa gaaatcatat gactctaga agctgtacct gcaaaacaat aagattacat ccatctocat ctatgtttc agagagctga</p> <p>atagccttac taaactgtat ctacagcata acagaataaac ctctcigaag ccgggtgttt tgaagatct tacaagacta gaaaggctga</p> <p>taattgaaga taalcacctc agtctgaatt cccaccaac attttatgga cttaattctc ttattctt agtccgtg ataacgctc</p> <p>tcacctgtt acctgataaa cctctctgc aacacatgcc aagactacat tggctggacc ttgaaggcaa ccatatccat aattaaaga</p> <p>attgacttt tattcttgc agtaatttaa ctgttttagt gatgaggaaa aacaataa atcatataa tgaataact ttgacacct</p> <p>tcagaagaat ggaataatg gatttaggaa gaataaagt tgaataat ctccagctta tatcaaggga cctggaaagg ctgtcaaat</p> <p>tgaatcttc ctataacca atccagaataa ttcaagcaaa ccaattgtt tatctgtca aactcaagtc tctcagctta gaaaggatg</p> <p>aaattcaaa tatccaaca aggatgtta gactctat gaactctct cacatatt ttazagaatt ccagtiactgt gggatagcac</p> <p>cacatgttcg cagctgtaaa ccaaacactg atggaaatc atcttagag aatctctgg caagctat tatcagaagta ttgtctggg</p> <p>ttgtatctg agttaccgc ttgggaaca ttittgtcat ttgcatgga cttatata ggtctggaga caagctgtat gccatgtcaa</p> <p>tcattctct ctgtctgoc gactgttaa tgggaataa ttattctg atcgaggct ttgacctaa gttctggga gaaatacaa</p> <p>agcatcgca gctgtggag gaggactc atgtcagct tgtaggatct ttggacctc tgtccacga agtatcagt ttactgtta</p> <p>catcttgac atgggaataa tacaatgca tigtatcc tttagagt gtagagacct gaaatggcag aacaatgca gttctgact</p> <p>tcattggat tactgtgtt atagtgctt tcatccatt gagcaataa gaaatttca aaaaacta tggcaccat gggatagct</p> <p>tcacttca tcaagaagt acagaagga ttgagcca gattatca gggcaatt ttcttgat taattggcc gcaattaca</p> <p>tcaagttt ttctagga agcaatttt atagtgcca tcaagtgcc atagacga ctgaaatag gaaactagt aaaaagaga</p> <p>tgalcttc caaagctt ttcttag tatttacta tgcattagc tggaaacca ttittgtat gaaattct tactgttc</p> <p>aggtagaal accaggacc alaaacctt gggtagtag ttattctg ccatacca gttcttgaa ccaattct talactctga</p> <p>ccacaagac attaaagaa algattalc ggttttgga taactacga caaagaataa ctatggacag caaaggctag</p> <p>aaaacatag ctcatcatt caatgggtg gaaatggcc cactgagga gatgccact gatataga agcggacct</p> <p>ttcacata cctgtgaa tgtactgat ttctatca acgagacta attctatc atga</p> <p>MTSGSVFFYI LFGKYFSG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV</p> <p>DDCGNADED NCGDNNGWSM QFDKYFASY KMTSQYFEA ETEPCLVGSV</p> <p>PVQCLQGLE LDCDETNLRA VPSVSSNVTA MSLQWNLRK LPDFCFKNYH</p> <p>DLQKLYLQNN KITSISYAF RGLNSLTLY LSHNRITFLK PGVFEDLHRL EWLIIEDNHL</p> <p>SRISPTFYG LNSILL VLM NNVLTRLDPK PLCQHMPRLH WLIDEGNHH</p> <p>NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKSLDEL DLGSNKIENL</p> <p>PPLFKDLKE LSQNLNSYNP IQKIQANQFD YLVKLKSL EGEISNIQK RMFRPLMNL</p> <p>HIYFKKFQYC GYAPHVRSCK PNTDGISSLE NLLASIQRV FVWVVSATC</p> <p>FGNIFVICMR PYRSENKLY AMSIUSLCCA DCLMGIYLFV IGGFDLKFRG</p> <p>EYNKHAQL WM ESTHCQLVGS LAILSTVSV LLLTFLTLEK YICIVYFPRC</p> <p>VRPGKCRIT VLIWITGF IVAFIPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQIYS</p> <p>VAIFLGINLA AFIIIVFSYG SMFYSVHQSA ITATEIRNVQ KKEMLAKRF FFIVFTDALC</p> <p>WPIFVVKEL SLLQVEIPGT ITSWVVFIL MINSALNPIL YLTITRPFKE MIHFWYNYR</p> <p>QRKSMDSKGQ KTYAPSIWV EMWPLQEMPP ELMKPDLFY PCMSLSISQS TRLSNYS</p>	Homo sapiens
623	190745	G Protein-Coupled Receptor LGR7	NP_067647.1	<p>atgacatcgtg gttctgctt ctctacatc ttaattttg gaaataatt ttctcatggg gggggacagg atgccaagtg ctcccttggc</p> <p>tatttccct gtgggaacat cacaagtg tgccacag tccgacag taacgggtgg gacgactgg ggaatcaggc</p> <p>cgatgaggac aactgtggag acaacaatgg atgggtccatg caatttgaca aattattgc cagtactac aaaaagactt</p> <p>cccaatacc tttagagga gaaacacctg aatgtttgt cgggtctgg ccagtgcaat gttctggcca aggtctggag ctgactgg</p> <p>atgaaccaa ttacgagct gtccatcgg ttcttcaaa tggactgca atgctactc agtggaaact aataagaag ctctctctg</p> <p>attgttcaa gaaatcatat gactctaga agctgtacct gcaaaacaat aagattacat ccatctocat ctatgtttc agagagctga</p> <p>atagccttac taaactgtat ctacagcata acagaataaac ctctcigaag ccgggtgttt tgaagatct tacaagacta gaaaggctga</p> <p>taattgaaga taalcacctc agtctgaatt cccaccaac attttatgga cttaattctc ttattctt agtccgtg ataacgctc</p> <p>tcacctgtt acctgataaa cctctctgc aacacatgcc aagactacat tggctggacc ttgaaggcaa ccatatccat aattaaaga</p> <p>attgacttt tattcttgc agtaatttaa ctgttttagt gatgaggaaa aacaataa atcatataa tgaataact ttgacacct</p> <p>tcagaagaat ggaataatg gatttaggaa gaataaagt tgaataat ctccagctta tatcaaggga cctggaaagg ctgtcaaat</p> <p>tgaatcttc ctataacca atccagaataa ttcaagcaaa ccaattgtt tatctgtca aactcaagtc tctcagctta gaaaggatg</p> <p>aaattcaaa tatccaaca aggatgtta gactctat gaactctct cacatatt ttazagaatt ccagtiactgt gggatagcac</p> <p>cacatgttcg cagctgtaaa ccaaacactg atggaaatc atcttagag aatctctgg caagctat tatcagaagta ttgtctggg</p> <p>ttgtatctg agttaccgc ttgggaaca ttittgtcat ttgcatgga cttatata ggtctggaga caagctgtat gccatgtcaa</p> <p>tcattctct ctgtctgoc gactgttaa tgggaataa ttattctg atcgaggct ttgacctaa gttctggga gaaatacaa</p> <p>agcatcgca gctgtggag gaggactc atgtcagct tgtaggatct ttggacctc tgtccacga agtatcagt ttactgtta</p> <p>catcttgac atgggaataa tacaatgca tigtatcc tttagagt gtagagacct gaaatggcag aacaatgca gttctgact</p> <p>tcattggat tactgtgtt atagtgctt tcatccatt gagcaataa gaaatttca aaaaacta tggcaccat gggatagct</p> <p>tcacttca tcaagaagt acagaagga ttgagcca gattatca gggcaatt ttcttgat taattggcc gcaattaca</p> <p>tcaagttt ttctagga agcaatttt atagtgcca tcaagtgcc atagacga ctgaaatag gaaactagt aaaaagaga</p> <p>tgalcttc caaagctt ttcttag tatttacta tgcattagc tggaaacca ttittgtat gaaattct tactgttc</p> <p>aggtagaal accaggacc alaaacctt gggtagtag ttattctg ccatacca gttcttgaa ccaattct talactctga</p> <p>ccacaagac attaaagaa algattalc ggttttgga taactacga caaagaataa ctatggacag caaaggctag</p> <p>aaaacatag ctcatcatt caatgggtg gaaatggcc cactgagga gatgccact gatataga agcggacct</p> <p>ttcacata cctgtgaa tgtactgat ttctatca acgagacta attctatc atga</p> <p>MTSGSVFFYI LFGKYFSG GGQDVKCSLG YFPCGNITKC LPQLLHCNGV</p> <p>DDCGNADED NCGDNNGWSM QFDKYFASY KMTSQYFEA ETEPCLVGSV</p> <p>PVQCLQGLE LDCDETNLRA VPSVSSNVTA MSLQWNLRK LPDFCFKNYH</p> <p>DLQKLYLQNN KITSISYAF RGLNSLTLY LSHNRITFLK PGVFEDLHRL EWLIIEDNHL</p> <p>SRISPTFYG LNSILL VLM NNVLTRLDPK PLCQHMPRLH WLIDEGNHH</p> <p>NLRNLTFISC SNLTVL VMRK NKINHLNENT FAPLQKSLDEL DLGSNKIENL</p> <p>PPLFKDLKE LSQNLNSYNP IQKIQANQFD YLVKLKSL EGEISNIQK RMFRPLMNL</p> <p>HIYFKKFQYC GYAPHVRSCK PNTDGISSLE NLLASIQRV FVWVVSATC</p> <p>FGNIFVICMR PYRSENKLY AMSIUSLCCA DCLMGIYLFV IGGFDLKFRG</p> <p>EYNKHAQL WM ESTHCQLVGS LAILSTVSV LLLTFLTLEK YICIVYFPRC</p> <p>VRPGKCRIT VLIWITGF IVAFIPLSNK EFFKNYYGTN GVCFFLHSED TESIGAQIYS</p> <p>VAIFLGINLA AFIIIVFSYG SMFYSVHQSA ITATEIRNVQ KKEMLAKRF FFIVFTDALC</p> <p>WPIFVVKEL SLLQVEIPGT ITSWVVFIL MINSALNPIL YLTITRPFKE MIHFWYNYR</p> <p>QRKSMDSKGQ KTYAPSIWV EMWPLQEMPP ELMKPDLFY PCMSLSISQS TRLSNYS</p>	Homo sapiens

624	190748	GPCR Ls190748	AX147756		A	Homo sapiens
<p>gtictgggggt ggggggagtc gggagacaggg tcaatlgctt gaaagcaagtg ctctcalccc cctagctctt gctgactatag tgggggctcc agagtggggga ggaagaaagg actttgaagc ttctctggcc ttaccgttct agccatcaaa ctctgagctg ggagatagga cgaatgggaca ggaactttcc ctgggctctt ctggggocaca attcttggcc gaaagaaaga ggaaggaatga gggtgagcacc ttcttacct ctatgggccaat gttggtagagc tgcagtgccg cctcttcttg ccaataggcca tagatgagtg gggttagcag ggaagtggccc agcccgaagca gccaagtgta cctgtccagc actaggttaga ggttagacatc ctggcagggcc acctgacaaa tggcagtgat aaggaaggggg gttccaggata gaaagaaagt cccaatgaga acagacacag tacggtagagc tttgaagtcg ctggggagtc gttggggatcg aaaaactcca gccaatggctc ctggcagtc ctctttcga atctgtggc tggcatalgga gggcaatctg agcattgtcg agtagaagaa gacaaagaggg agcattggctg ggaagagagcc aacggcagggag agggtcagca cgaagtgaagg gttgaatata gcaatagagc tgcactggcc ttgttagggca gttctgtg acaatggggat tccgaatggg aggaagggcca tgaagtaga cactaacac agcccgggcaa tgcagggccc gggccagaaac ccactatga tctcaagta ggggaaggggc tgcattgag caaggtacct gtaaaagtggt atcagatga cctgttagagac agtaggcaagct ggggagggag tagaataagc catccgcaagg ctggcagggg tcttctgtt gggccgaagaa gggctgggaga gctgtgtctgt gagtagggcca gtagatggcca caccataaa ggtgtcagcc acagccagat tcaaggtgaa gcaagagagc acaccaatc tctgttgat caacagcagc acagccagc ccactatgt gtagtagga atgtaggggg agggccagggac agcaagggatc actcaaatg agaaagtaga ttccatgt cgaagtggca ggaactcact taccaaggca tg MESSFSGVI LAVLASLIA TNLVAVAVL LIHKNDGVS LCFTNLAVA DTLIGVAISG LITDQLSSPS RPTQKTLCSL RMAFVTSSAA ASVLTVMILT FDRLAIKQP FRYLKIMSGF VAGACIAGLW LVSYLIGFLP LGIPMFQQT YKQCSFFAV FHPHFVLTLS CVGFFPAMLL FVFFYCDMLK IASMHSQQR KMEHAGAMAG GYRSPRTPSD FKALRTVSVL IGSFALS WTP FLITGIVQVA CQECHLYLV ERYLWLLVG NSLLNPLIYA YWQKEVRLQL YHMALGVKKV LTSFLFLSA RNCGPERPRE SSSCHIVTISS SEFDG</p>						
625	190748	GPCR Ls190748	CAC39548.1		P	Homo sapiens
<p>atggccaact ccacaggggct gaaagccctca gaaatcgacag gctcgttggg gttgactctg gcaagctgtcg tggaggtggg ggcactgtctg ggaacggggc cgtctgtgtg cgttgggtctg cgcacggccgg gactgtcttac cgtggcgcaccc tgtgtgtgt ggaactgtctg gggggccgct ccaatcagcc gctggggctg tctccggccg tctgtgtcgg gctgtggccgg gtgtgtgtg gcccggccggc altggccggcc gctcgtcttc tctccggccg tctgtgtcgg gctgtggccg tgggggtggc cgcacttggc ctggcactgt accgctcat cgtgtacccg ctgggagcag gctcggcggcc ggcggctgtg ctgtgtctca ccggcgtgtg gggcggggcg ggaactgtctg gctgtcttc cctgtctggc ccggccggccg caagggccccc tgtctgtct cgtgtctgg tctgtgtgtg gggcctcggg ccttccggc cgtctgtggc cctgtgtggc ttggcgtgtg ccggcctct gctgtgtggc gcttaccggc gcaatctgt ggtgtgtgtg cgtgtgtccc tgaagggccc accggccggggc cgtgtgtgtcc gactccgtc ggaactctg gtagggccg ttccatcti gcccggccg cggcctctg tggccggggg caagggggcc ctggcccccag cgtgtgtgtg gggccaattt gcaagctgtct ggtgtgtctta tggcgtgtcgg tggcgtggcc ccggcggc ggccgggaa gcccgaaggc cgtgtacatg ggtgtgtgtac tggcgtgtc cgtgtgtaccc cttctgtac gggcgtgtg agcggcccg ggccttggca ctggggccgg tctgtggc tgcactgtg ggaactgtg gggcctgtgac tccggcaagcc tggcaccggc gggcactcti gcaatgtctc cagaagaccc cagaagggccc tggcgttagg ccttcttagg ctccagaaca ggacccgg tggcagggag gggggagccc cgtataccag gggccacctg agagtctt cttctga MANSTGLNAS EVAGSLGLIL AAVVEVGALL GNGALLVVVL RTPGLRDALY LAHLCVVDLL AAASIMPLGL LAAPPGLGR VRLGPAPCRA ARFLSAALLP ACTLGVAALG LARYRLIVHP LRPGSRPPPV LVLTAVWAAA GLLGALSLLG PPPAPPAPA RCSVLAGGLG PFRPLWALLA FALPALLLLG AYGGFVVAR</p>						
626	190749	G Protein-Coupled Receptor GPR62	AF317653		A	Homo sapiens
627	190749	G Protein-Coupled Receptor GPR62	AAK12638.1		P	Homo sapiens

628	190774	Histamine H4 Receptor	NM_021624	<p>RAALRPPRPA RGSRLRSDSL DSRLSILPPL RPRLPGGKAA LAPALAVGQF AACWLPYGCA CLAPAAARAAE AEAAVTWVAY SAFAAHPLY GLLRPVRLA LGRLSRRALP GPVRACTPQA WHPRALLQCL QRPPEGPAVG PSEAEQITPE LAGGRSPAYQ GPPESSLS</p> <p>ggagagactac acatttagg tagtggatla gaaacacalac tggcagaat tgcitggctg gattaatgg ctaatggac ctctcacc atttgatgg algocagatla ctaatagcac aatcaatlaa tcaataagca ctgggttat ctgggttat ttatggctt ttatggctt tagtggctt tgcataalg ctagggaatg ctgggttat ttatggctt ttatggctt ttatggctt ttatggctt ttatggctt ttatggctt ttatggctt ggocactct gactcttgg tgggtggat ctocactct ttgtatoc ctcaacgt gttcgaatgg gatttggaa aggaatctg tgaatttgg ctactactg actactgt algtaacagca tctgtatata acattgtct calacagctat gtaogalaoe tgcagctc aaatgctgg tctatagaa ctcaacalac tgggtggctg aagatggta ctctggat ggocgttgg ttgtggctt tctatggaa tgggocaaatg attcagtt cagaactgg gaaagatgaa ggtagtgaat gtaaacctgg atttttgg gaaigtatca tctggocat cacalcatc ttggatctg tgaatccagt calcttagtc gctatitca acatgaaat ttatggagc ctgggtgagc gttgacatc cagtagggc caaagoccatc ctggactgac tgcctggctc tccaacatc gttgacacac attcagaggt agatctct caaaggagatc tcttctgca tggacagag ttctggcatc ctctacatc gtagagagaga gtagagagag tagtctcag ttctctcaa gaaocaaagt gaaagagat acattgtct ccaaatggg ttctctoc caatcagat ctgggtctct tcaocaaag gaaatggg aactgcttag agocagggaa tagocaaat cactggocat tcttagggg gtttggct ttgtgggct locatctct ctgttcaaa ttgtctctc atttatcc tcaagcaacag gttcctaaat agtttggat agaatggca ttggcttca gttgttcaat tcttggca atctcttt gtaoccatg tgcacagc gtttcaaaa gtttctctg aaaaattt gtaaaaaa gcaacctct ccaacaaac acaactggct agtatctct taaagacaa ttctcact ctgtaaatt tagtctcaat ctacactaaa tgaatcaggt ctggocctta tctggocct ttactctac caacagatc gcaattgaa gtaaatggta aattactca gtaataata gcaatgaaat algactgat aaatggg taaactgta gtaataag tactatc ttcttagct tcaactct ctggctt agatctt agatctt ttatggct ttacaaaat ccaatttgg ttcttcta tgttccatc alaaacag cttaagggaa ttctctt ttatggat cgttaagaa actatccag ttgaaatc attcctaaa gcaatgcaata gtaaaaaa gttcctggct gtagactggc cctgtggct tgaatggg gttgggtggg taggttggaa gttggcaaga gcaagggagag gtagactggc cgtgtggct cctgtggct tcaatggat alactctaa tccagtag gtagagagag taggttggaa gtagagagag taggttggct cgtgtggct aggttctcag tgaatggg ttgggtggc ttgtgtggct aggttggaa gtagagagag taggttggct cgtgtggct tgaagatgg gtttggct ttcttct ttcttct ctacttca cactggctc cttttggag aacataagaa agaaagagag taagagatgg tgaagagat gcaatgaa actatgata cctgggtatc agtactgaa ctatggatg tcaataata ttatgaa aaatggat ttgtggc gtagagag ctacgtctg aaatccagc acttggagag gcaagggg gtagactggc aggttggag algtagacca tctgggcaaa catgggtgaa cccatctgt actaaatc aaacaggtag ctgtgtggg cgtggcag ctgtgtggc agtactgg gtagctggag taggttggaa gtagagag gtagagag gtagagag cgtggcaaa gtagagat ctgtctaaa agaaataaa atttttgg tgaagagag acttggct gtttggct ctgtggct gtaatggat calagctac tgaagctgg aactctgg ctaagcaat cctggctc tggocctc agtatggg actacagat ctggcaca cactgggata aaaaaaa tattctgta gtagagag ctactgggt tggocagct gtagagat aatatttt taaaaaaatt tttaaaa gtttttgg acagatct gtttggag ctagagag gtagagag gtagagag alcatggca cctctggct ctgggttcaa gtagagag tggocagag accgtggag ctgggtggag gtagagag caacagct gtagagag gtagagag gtagagag gtagagag gtagagag gtagagag gtagagag aagagagag attggctgg tggocagag gtagagag gtagagag gtagagag gtagagag gtagagag tggctggag atagagagaa gtagagagaa taattggc ctgtggag ctgtggag ctgtggag ctgtggag taattggat gtagagag tagagag tagagag tagagag tagagag tagagag tagagag tagagag</p>	A	Homo sapiens
-----	--------	--------------------------	-----------	--	---	--------------

629	190774	Histamine H4 Receptor	NP_067637.2	<p>acattttat agtttggtta tttttgtcc tttaaaaca ttttttttg agatgggggt ctgtctctgt tgcacagca ggaagtcagt ggatgctct cagctcactg cagccctgac tgcctaggct ccagcaatct tcttacgca gctctcagag tagctgggac cgaggcact tgcacacag cccactaaa aatttttaa atgttgcct tcttgaggt gttctctgoc tgtcttgic acaaatitc atttttca tagttaatt cactctcg gtaagattt atgttggtt cttaatac ttgcagtic ttacacgtt tgggattt calgttct agaaacttta aaccttiaac ttcaaacatt aaaatacaag tcttttaagt acalggagtc ttgaaatgt acataatgt talataact tatgcttac attaaagtc aatatgagaa alacatgtt aacatcaat aataattta aaaatttgag aaataaact tcaataatgc aaaaaaaa aaaaaaaa</p> <p>MPDNTNSTNL SLSTRVTLAF FMSLVAFAIM LGNALVILAF VVDKNLRHRS P Homo sapiens</p> <p>SYFFLNLAIS DFFVGVISIP LYPHITLFEW DFGKEICVFW LTTDYLLCTA SVYNVLISY DRYLSVSNV SYRTQHTGVL KIVILMAVW VLAFLVNGPM ILVSESWKDE GSECEPGFFS EWTALATSF LEFVIPVLV AYFNMYIWS LWRDHLSRC QSHPGLTAVS SNICGHSFRG RLSSRRSLSA STEVPASFHS ERQRRKSSLM FSSRTKMNSN TIASKMGFS QSDSVALHQR EHVLLRARR LAKSLAILLG VFAVCWAPYS LFTIVLSFYS SATGPKSVWY RIAFWLQWFN SFVNPLLYPL CHKRFAQFL KIFCKKQPL PSQHSRSVSS</p>	
630	190823	Formyl Peptide Receptor 1 (FPR1)	NM_002029	<p>ccagaccta gaactaocca gagcaagacc acagctgggtg aacagtccag gagcagacaaa galgagacaa aatctcttc tcccacagaa catctctgga gggacacctg ctgaatctgc tggtaatc ttcttgata tcaactta tctgtattt gcagcacct tigtctcgg ggtctgggc aacgggcttg tgaatgggtt ggcctggatc cggatgacac acacagtac cacatcagt tacctgaac tggcctggc tgaatctgt ttacatcca ctgttcatt ctgaatgtt cggaaagtc ttctgacg cctcatigc ttgggaccg ggctgggttc tgrtcaaat cgtcttacc alagtggaca tcaactgtt cgaagatgc ttctgacg cctcatigc ttgggaccg tgrtggcg tctgtcatoc agcttggacc cagaaccacc gcaccgtgag cctggccaag aagtgatca ttgggacctg gggtgggt ctgtctccta catggcagt tatcattgt gtagctacag taacttgtaa aacgggggaca gtagcttgca cttaact ttcgccctgg accaagacc ctaaaagag gagaaatgt gccgttgcca tgttgcaggt gagagggatc atocggatca tcatggctt cagcgacacc algctcatcg ttgctgtcag ttatgggtt atggccatc agatccaca gcaaggttg attaagcca gtcgtccctt acgggtcttc tctgtgtc cagcagcct ttctctgc tggccccc atacaggtgtt gggccctata gccacagca gaatccgga gttatgcaa ggcagtaaa agaaatgg tatgtcagtg gtagtgacaa gtagctgac cagccctc cgtctcaac agctgtccta acccatgt ctatgttc atgggcccag acttccggga gagctgac cagccctc cgcagctc ggagaaggcc ctgacggagg actaoccca aaccagtgac acagctacca atttactt accttctga gaggtggagt tacaggcaaa gtaggaggagg agctggggga cactttcag ctccagctc cagctctgtc tcaactgtg ttggctgag cacaggcatt tctgtctat ttaggatta cccactatc aaaaaaaaa aaaaaagcct tigtgtccc ttattgggg agataaaca gatatgatt t</p> <p>METNSSLPNTN ISGGTPAVSA GYLFDIITY LVFAVTVLG VLGNGLVWV P Homo sapiens</p> <p>AGFRMTHVT TISYLNLA VA DFCFTSTLP FMVRKAMGGH WPFGWFLCKF VFTIVDNLF GSVFLIALIA LDRVCVCLHP VWTQNHRTVS LAKKVIIGPW VMALLTLPV IIRVTVPGK TGTVACTFN SPWTNDPKER INVAVAMLTV RGIIRFIIGF SAPMSIVS YGLIAKHK QGLKSSRPL RVLSFVAAF FLCWSPYQVW ALJATVRIRE LLQGMYPEIG IAVDVTSALA FFNSCLNPML YVFMGQDFRE RLJHALPASL ERALTEDSTQ TSDTATNSTL PSAEVELQAK</p>	
632	190824	Formyl Peptide Receptor-like 2	NM_002030	<p>atggaacca acttctcat tctctgaat gaaactgagg aggtgtccc ttgagctgct gggcacaocg ttcttgat ctctcatg A Homo sapiens</p> <p>ctagtccag gagtcaact tgcctgggg gtcttgggca atgggtgt gacttgggt gcttgatcc ggaagacag</p>	

(FPRL2)

633 190824 Formyl Peptide NP_002021.2 P Homo sapiens
Receptor-like 2
(FPRL2)

cacagrtcaac accatctgtt acctgaacct gggccctagtct gactttctct tcaagtgccat octacattc cgaatgggtct cagtgcccat
gagagaaaaa tggcctttg cgtcatttct atgtaagta gttcalgta tgaataacat caactgttt gttcagttgtct acctgatcac
calcttgtct ctgggaccgtt gttttgtt cctgcalcca gcttgggccc agaaaccaltog caccatgagt ctgggccaaga
gggtgtagtac gggactctgg atttaccaca tagtcttac cttaaccat tcatctct ggaactaacat aagttactacg aatgggggaca
calactgtat tticaactt gcatcttggg gtagacatgc tgaagagagg ttgaacgtgt tcaatccat gggccaagggtc ttctgattc
tcacttcat tattggcttc acgggtgacct tgrccatcat cacagttctgc taagggtacca tggcttgccaa aattcacaga aaaccacalga
ttaaalccag ccgttccctta cgttctcttcg ctgctgtgtgt ggtcttcttc tcatctgt ggttccctta tgaactaatt ggtcattctaa
tggcagttctg gttcaaaagag atgtgtttaa atgggcaata caaaatcatt ctgttcttga ttaaccacac aagttctcttg gctttttta
acaagctgctt caaaccatct cttaagttct ttatgggttg taacttccaa gaaagagcttga ttggctcttt gggccactagt ttggagagagg
cccttgactga ggtcccttgac tcaagccaga ccaagcaaac acacaccact tctgtctcac ctcttgaggga gacggagnta
caagcaatgt ga

METNFSPLN ETEEVLPEPA GHTVLWIFSL LVHGVTFVFG VLGNGLVIWV
AGFRMTRTVN TICYLNLA DFSAILPF RMVSVAMREK WPFASFCLKL
VHVMDINLF VSVYLITIA LDRCICVLHP AWAQNHRTMS LAKRVMTGLW
IFTIVLTPN FIFWTTIST NGDTYCFNF AFWGDTAVER LNVFITMAKV FLILHFIIGF
TVPMSTTVC YGIIAAKIH NHMKSSRPL RVFAAVVASF FICWFPYELI GILMAVWLKE
MLLNGKYKII LVLNPTSSL AFFNSCLNPI LYVFMGRNFQ ERLIRSLPTS LERALTEVPD
SAQTSNTHIT SASPPEETEL QAM

634 190948 EMR2 Hormone NM_013447
Receptor

A Homo sapiens

cggagacagg acagccgtt cccactact ctttcccttg ctgctctctgc cggcagctca gcttggaacca tgggagggccg
cgtcttttc gtttttctt cacttctgt ctggctgact ctggcggggag ctggaaccoca ggaactocagg ggtctgtggcc
gggtgtgtcc tcaagacttc tgggtgtca atggccaccg ctgtctctgc aatocagggtt tcaagctctt ttctgagatc
alcaaccacc ccaltggagac ttgtgacgac alcaacagagt gttgcaacact gttcggaaagt tcaatcgga aattctcgga
ctgtctgggac acaggggggga gttacagatg cgttggcagc ccaaggaatag agctgtttc ttggggcaaaa acatttcaga
atgtagagcga gaaacagttt caagatgttg acgaatgtca gcaagaaacca aggtctgtta aaggtctacgg caccgtcgtc
aaacaccttg gcaagctacac gttccagttg ctgtctgtgt tcaagttcaa accgtgggac ccggaagctct gcaagatgt
gaaatgaatg acctccggac aaaaaccttg ccacagttct accacttgcc tcaacaagt gggcagctat cagttgocgt
ggcccccggg ctggcaaccg altccgggggt cccccaalg cccaacaaat accgtctgtg aaatgttggga cgaatgtcagc
tccggggcagc atcagttgtga cagcttcacc gttctgttca acacgttggg ttcatatagc ttccgtctgoc gcccagggtc
gaaagcccaaga caggggaatcc cgaataaacca aagggacact gttctgtgag atatgactt ctccacttgg accccggcccc
cttgtagttoca cagccagagc ttcccgat tcttgagcaa agttccaggtac ctgggtcagag actataagtc aggtcttggcc
aataacacca tccagagcat cttaaggtc ctggatgagc ttctggagggcc ccttgggggac ctggggaaccc ttgcccgtt
acagcagcac ttgttggcca gttacgtt ggaatggccca ggaatgttcc tcaagggctt gaggcaagzac ctttocaaag
ggctgttga cttcagttat ccttgcaggga cagaaatttc ccttggaggttg caagaaagcag taagcaagggag ttgtacattg
aggaagaatc aggtcagttga gcaagctcga ttgaatcagc cacaagaatc ttgtgaatccca gggcccttctg ttgttgggctt
ttgtctcatt ccaagggatgg gcaagttgtt ggtctggggcc cctctgtgtt ttgaaacctga gaaagcagatg ctcttgcag
agacacacca ggggttggct cagggaaggt ccccatctt gttctcagat gttgactcttg ctttttgag caaacagac
accocaaacc tcaagttccc agttacatc accttccc accgtttcagt gaaatggga cagaaggggtc tctgtgtctt
ctgggagcat gggcagaaag gaaatgttga ctggggccacc acaggtctgca gcaaaagac caccagagac accagcaca
tctggccgttg caaccacatg agcagctttg ccgtctctcat gggccactac gaaatgtcaggg agggaggaatcc cgtgtctgact
gttcalacct acatgggggt gagggtctct ctgtgtgtgccc tctctctgct ttctctctt gtaaaagccat ccaagaaacc

49/448

635	190948	EMR2 Hormone Receptor	NP_038475.1	<p>agcaacctcac tgcctcgtc tgcctctcc tggccacct cctctctc tggcaatg atcaaacgg acacaggcg ctgtgtcca tcatgccgg taactgcac tatcttacc tggccacct cacttgatg ctgtggagg ccctgtacct ctcttacct gcaagggaacc tgaagggtgt caactacta agcatcaaca gattcaagaa gaaagtcatg ttccctgtgg gctacggagt ccacgtcttg acagtggcca ttcttgacgc ctccaggcc cactttatg gaacacctc ccgtctgtgg ctcaaacagg aaaaagggaatt tataaggggc ttccctggagc ttctgtcgc catctctct gtaatttag ttcttct gggtactctc tggatttga aaacagagact ctctccctc aatagtgaaag tttccacct ccggaacaca aggtatgctgg catlaaagc gacagctcag ctgttcatcc tgggctgcac gtgtgtctcg ggcattctgc aggtgggtcc ggttgcocgg gtcatggct acctttcac calcatcac agcttgcaag gtgtcttcat ctctctgtg tactgtcc tcaagccagca ggctccggag caataaggga aatgttccaa agggatcagg aaattgaana tgaagtctga gattgcacaca ctctccagca gtctaaagg tgaacctcc aaacccagca cggttaacta gaaaaatct ctgaataaga tcttccctct ttgcgggtgg aaaaatctgaa caatcttga gccatctaga ggggaaagaa aagactttgt tctgtgtt tcaagaaatt caccatgca gcaatatgaa ggatgtatg gaaggcgctc ttggcatlca attctgcag aaaccggaaa tcttccatgc cctgcaatgt gctatcaaa ctctcagcat atggagggcc agctgtggcc catacttgg tcaactgaa gcacaalatt tatgaagcta tagaacgtta agaccttct cacagcctct ccttcttaca aagactctc caaatcttca aatgaagcag gaaaacacgc ctgaaggagc ttcataccg acaacatcg aaaggactag aatgtcaca ccacgatctg gattcttaa tttttgt ttgtttgt ttctcttag ttctacgggt ttgatatt agcatgta aaaaatgta ttactcac atagatcaag agagacacagg ctctgacct catggagct ttgggggaaa atgaaggcg tctgtcagct agatgtgact cagaagccga aattcttga aatcaggtt ctactgtag gcaattgaag tataaactat ttlaaaca ctgtctctt tcatctcac</p>	P	Homo sapiens
636	190955	Leukotriene B4 Receptor BLT1	NM_000752	<p>MGRVFLVFL AFCVWLTLP AETQDSRGCA RWCQDSSCV NATACRCNP FSSFSEIIT PMETCDDINE CATLSKVSCG KFSDCWNTEG SYDCVCSPGY EPVSGAKTFK NSENETCQDV DECOQNPRLC KSYGTCVNTL GSYTCQCLPG FKLKPEDPKL CTDVNECTSG QNPCHSSTHC LNNVGSYQCR CRPGWQPPG SPNGPNNTV C EDVDECSGQ HQCDSTVCF NTVGSYSRCR RFGWKPRHGI PNNQKDTVCE DMTFTWTPP PGVHSQTLR FFDK VQDLGR DYKPLANN IQSILQALDE LLEAPGDLET LPRLQHCVA SHLLDGLD V LRGLSKNLSN GLLNFYPAG TELSLEVQKQ VDRSVTLRQN QAVMQLDWNQ AQKSGDPGPS VVGL VSIPGM GKLLAEAPLV LEPEKQMLLH ETHQGLLQDG SPILLSDVIS AFLSNNDTQN LSSPVTFTS HRSVTPRQKV LCVFWEHGQN GCGHWATTGC STIGTRDTST ICRCTHLSSF AVLMAHYDVQ EEDPVLTVIT YMGLSVSLLC LLLAALTFLL CKAQNSTSTSLHLQSLCLF LAHLFLVAI DQTHKVLCS IIAGTLHYLY LATFTWMLLE ALYLFTARN LTVVNYSSIN REMKKLMFPV GYGVPATVA ISAA SRPHLY GTPSRCWLQP EKGFHWGFLG PVCAIFS VNL VLFLVTLWL KNRLSSLNSE VSTLRNTRML AFKATAQLFI LGCTWCLGIL QVGPAARVMA YLFTIINSLQ GVFI L VYCL LSQQVREQYG KWSKGIRKLL TESEMHTLSS SAKADTSKPS TVN</p> <p>gccattctc cacaatccgt ggggtcagga agccctctc gaactctgac ttcatgtt gctgcgggt ctgccatt ttctatc ctctgacgc tgcagggtca tctctgtct ggtttctc caagcagaac aagtggggc tctggaagg ttaggggacc tcaaggcca ccaatctct tgcattct ctgagaagt gaaagtga aagggaagcag gaaggcccat gggtcagattg aagggaagc tttaatt ttttttt ttgtgaat ggaagctcgc tctgcatc aggtggagt gcaagggtgc gactcagct cactgcagcc tcaactct ggggtcacat gattctctg cctcagctc ccaagtgact gaaactacag gcaatgcca</p>	A	Homo sapiens

637	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	<p> ciacaccag ctaactttg taattttg agaaagcgggg ttacaccg ttggccaggc tggctcaaa ctgctaacat caagtgatct gctccctca gctcccaaa gctctggagat taaccgtatg aaccacaca accctggccagg taattttg tttaagcttt tggcggagagac ttcaaggaaa ggaagacatc ctctgtccag gaaacgggta agggagacat ttctgtatg ctggttcc ctctggcag gggtggggcag agggcatcat gttccctgc cctcatctt gctctcatg ctacggctgc cagctcggcc tcaactttg gttctaaag tggaaactgaa tagtagctgt gaaagagatag gaaagagggta gttccaatct ccttggccag atcataaatc cagactcagc agggtaacca catggggcag cacaaagtag gttctggggg aaggggggaa taattggcat tctgtgtgat accaaggagaa ccatttggat ttggctctt accaaaagaa atgggaat gttgtgacct aalgtaacca gttcccttaa gtaagggggag gaaagggggt gctggagat gggctcttc ccacaccta gataagct tgaactgaa ocaaggagag agtgctggcc ccttggcat ttactgagt ggcctctta aatcatgag ttactaaac caaacacaga ccaaggacct agtcaagctt ccaactaca cttctatta atctaaac aagcgaac aacacaaaa agatacag atgtatgctt ccaatctat gtaaggccacac ccaagctctt accatactt cttctctat atgatacat tcaacttt gttcaattt cagctataga cctgtcatct gtaaggccacac ccaagctctt cactccac accctctt cctctcac tggctcttc tcatctggcc ccaactcaa ggaagctctcc tggctctgg gttggctgg aaaaagact atcccccct ctatgtgag gtaagggttag ggggtttcag ccaactcaa ggaaggttag tcttccgt cctctgtct gttgactt cctctgtct gatttagcaa acagcaacta gacttggggc cagggctttg gcaagtgggac agatacagg ataggctaca caccctgg ctagacctgg gattggcalt agttocaa cagtctctgg caaagctgt aagttccct gacggccatg aacaciatat ctctgtcag cccccctca ctatgtgtag agttcatct tctgtgtgt atcatctg tgcagtggc gctggctgtg gggcttcccg gcaacagctt tttgtgtgtg agtatcttga aagggatgca gaaagctctt gtcacggcc tgaagtgct gaaactggcc ctagggccagc tggccgtat gttcacgtt ccttttcc ttacttct gggccaggc acctggagt ttggagctggc tgggtggcc ctaggtcat atgtctggc agtcagcalt taccggcagc tctgtctat cagggccag agtctagacc gctcatggc ggtggcccg cctttgtgt ccaagagctt accgacaaag gcaagggcc ggcgggtgt ggcagggcalt tgggtgtgt cttctgtgt gggccacacc gttctgtgt accgacagt agtgctctgg aaaaagaa tgaagctgt cttccggc taccagcag aagggccagc gggcttccat ctatcttg aggtctgtac gggtctctg cttcccttc tggctgtgt gggccagctac tgggacatag ggtgtgtgt ctagggccggc cgtctccggc gcagccggc caccggcc cttgtgtgt tcatctct gacttggc gctcttggc tggcttaca cgtgtgtgac ctggctgag cggccggc ctagggcag cagggccggc ggtttgggt ccaagagctt accgacaaag gcaagggcc cgtgtcat gcatctgt tctggagcag cagctgtgac cctgtgtgt aggtgtgt cggccggc cgtctgtgt cggccggc gggcttctg gccagctgt tggggggcac ggttttccag ggttccag cggccggc cggccggc ggccagacc ctagggagcgg ccccgctct ctagggccgg gcttccag gggctctat gcttccag cttcaggt aaacgaactg aactaggtct ggtgtgagaa ggcggcactt cctctggc gaaagctag tctggagcag ttcaagctt ggagggag cagggggcgt gaaagggcgt agggcgtggc aggtgtggc gggggaggt aggtgtgagaa gagggagaa tggagcaag tgaaggccga gttgagggc gttccagctt ggttccaca ggcagctta accataaaa ctgaagctg aa </p>	P	Homo sapiens
638	191039	Trace Amine	AF380185	<p> MNTTSSAAPP SLGVEFISLL AIULLSVALA VGLPGNSFVV WSLKRMQKR SVTALMVLNL ALADLAVLLT APFLHFLAQ GTWSFGLAG RLCHYVCGVS MYASVLLITA MSLSLAVA RPFVSQKLR KAMARRVLG IWVLSFLAT PVLAYRTVVP WKTNMSLCFP RYPSEGHRAF HLIFEAVTGF LLPFLAVVAS YSDIGRRLLQA RRRRSRRTG RLVLILTF AAFWLPYHVV NLAEAGRALA GQAAGLGLVG KRLSLARNVL IALAFSSV NPVLYACAGG GLRSAGVGF VAKLLEGTS EASSTRGGS LGQTARSGPA ALEPGPSEL TASSPLKLINE LN atgatgacct ttggccacaa tataatatt atttccgtg tgaataacaa ctgggtcaaa gatgtccgtg cttccctgta cagttaatg </p>	A	Homo

639	191039	Trace Amine Receptor 1 (TA1)	AAK71236.1	MMPFCHNIN ISCVKNWSN DVRSLSLM VLJLITLVG NLIVVISISH FKQLHTPTNW LIHSMATVDF LLGCLVMPYS MVRSAEHCWY FGEVFCIKHT STDIMLSSAS IFHLSFISID RYYAVCDPLR YKAKMNLVI CVMFISWSV PAVFAFGMIF LELNFKGABE IYKYHVHCRG GCSVFFSKIS GVLTFMSTSY IPGSIMLCVY YRIYLIKEQ ARLISDANQK LQIGLEMKNG ISQSKERKAV KTLGIVMGVF LICWCPFFIC TVMDPFLHYI IPPTLNDVLI WFGYLNSTFN PMVYAFFYPW FRKALKMMLF GKIFQKSSR CKLFLELSS	P	Homo sapiens	<p>gfgctataa fctgaccac actcgtggc aatctgtag ttatgttcc tatatcacac ttaacaacac ttatcacccc aacaatgg ctatcatc ccatggccac tggtagctt cttcggggct gctggtagat gcttaccagt algctgtagat cgtctgagca cgttgtagat tttggagaag tctctgtaa aatcacaca agcacagaca ttatgttag ctagccccc atttccatt tgccttcat ctccattgac cgtctactag cgtgtgtgta tccactgaga tataaagcca agatgaatat ctgtgtatt tgggtgtaga tcttcatgag ttgtagtgc ccctcgttt ttgcattgg aatgatctt ctagagctaa acttcaagg cgtcgaagg atatatca aacatgttca ctagagaga gggtgtctg tcttcttag caaatatct ggggtactga ctttatgac tcttttat ataccgtgat ctattatgt alggtctat tacaatat atcttatgc taaagaacag gcaagattaa ttatgtatg caatcagaag ctccaatgg gattggaaat gaaataggaa attcacaaa gcaaatagg gaaagctgg aagacattgg ggaatggat gggagatttc ctatatgct gggtccctt cttaatgt acagtcatgg accctttt tcatacat attcaccta cttagaaga tggtagat tggtagct actgaact tacatatt ocaatggtt algcatitt ctatctgg ttagaaga cactgaaga gtagctgtt ggtaaat tcaaaaaga ttatccagg tgaatatat tttagaat gagtcatag</p>
640	191132	G Protein- Coupled Receptor 88 (GPR88)	NM_022049	<p>gggttccaca tcaagcaca cttcctgttc tgaagcacagg gttgctctct cttagctca gcttctgatt ttgcagccaa gcatctgc tgcctgcgc tgcctgcca ccctcctggg ctgcagccc gccaattac ttctcaga cctgtalacca gctgagaagt ctccctgcag cgtctagtt ctagccagga ccatgtgt gtagtctgt tggtagaagc gggcacttgc tccctggcact gattccagct gatttctc tggtagttc tggaccatg algctgttgc tgaaggtaga ttcttgga tccctcccc tgaacacccg gctaaaggac agcctaaag caaggcagga cagtgtcagg algtagccgc ctagccagga ccgtagcttag ctagaggtaggt gtgaaggatt ggccaagatg accaatctt cctccacat cactctcc accaccgtgt gctcgtctgc gctcgtctgc gaggagaagg agtctgtgggc ggcccccgc atccccgtgt cactctgta ttccggccct ggcatcgggg gcatgctggc caacggcag gctatctatc tctgtctgc ctccgaaag ctgcagacca ccagcaacgc cttaattgt aacggctggc ccgcggact cagctctgc gctctctgga tgcctgagga ggccgtgtct ggctctctgc ccacggctc tgcggagcc ccgcagact ggtagggcgc tggggggcagc taccgcctgc taccgggggt gctcgtctggc ctagctca cgggtctcc cctctccac tgcctcgtgg cctggaacgc ctactgtc atcacccggc cggcccgccac ctacacggcgc cgttatccag ggccacac ggccggggcag ctggcgtctgt cttggggcgt cggccctgggc ctctgtctgc tggccccc ctagggcagc cggcccccgc ccggccac ccggaatcac taccggggc tgcctggccgc cggccggcgc ctagggcag cagctctgt gctgcactgc taccgtggca tctgtgtccgc cgtgtgtgt agctgtcagg gggtgaggt ggcccccggc cggccggc ccggggcag cccagccctt gcccgcgcgc ctggcaccgc ggccggggcag ggccggggc agcgggtgt cgggtgtgt gctcgtctgc gctctctgc tggccagca gccaatgggt tgggtgagcc tggccgggc ctctcgtgc ccgggtccct ggggtagtga cggccggcagc tgggtctgt gctcgtccct gctcggcgc tctacacgtt gtagggagag gagttccgc gctccgtgtgc ctacgtctgc ccggggcgtc gtagccggc ggccggctgc gttggccgcca caggccgtgc cgtcgtgtcc caggccgaac tggggcaccgc cggccggcggc cagcactgtt aacttagccgc ggggccggag gtagggtaga tcccggtct ctagcgtct tggggcaccgc cgtctctct cctcctaggg cactccctgc ctggaacgag acttccgc cgaaggccca tagatcgggg gaaatgggg ccttcgacc ctagggcag ggccgtctc taggtgggg</p>	A	Homo sapiens	

641	191132	G Protein- Coupled Receptor 88 (GPR88)	NP_071332.1	<p>gocgaagc atttggagc gacacclgat tttaacct ttgtctg tttaaggga atoctaaagt caaaacacca ggaacttggaa gaaactggaa actggcggt tttaataaacc ggtaattta ttccacaca gttgtttt gaanaagagc ttccataatg tataacctt tccacttca tctcttata tatgaagcg ctggagtg tgcaaccaaa aggaataaac attgaagaag gaanaacata tgtaagaagt atttgaaga gtaacctgic ttgatgag ctctctac cattagtt ttgtatata cccggggca gtagagccct aggtgtgccc accagataga gttccallta agacctcaag ccccttatt tttaataaa gttttctca aatgggtag aatcttagcc agtgaagaaa aaaaatttt ttgtctctt tttttgc ctttaagac tgaanaatgg cgttgaagt tatagtga attttcagt ttgataatg atggcagag ccagcacagg aatttgaaa acaataagg tgaattata tttagtgc cgtttacat ttttatagc atgcacactt gtttctaac tcaattga accaatttt ttgcttag aatgttagg cagcttggaa cattctgtac tgtaatggt gtaagaaga ataatctt ctgttttc ttacattt aaatattc atggcacag atataatga acaciaaaa taccatgact gcalagctaa tatgtctgc tatgtatgc tctatagc tatgaactat tgggcatgtg gtatctgaa gcatatccg ttagacaagg atattttact tcttccagac accagaaga aatggcttca atatttga aagagacaca ggaacacct tggtaacct gagttctcc tgtctgacc aattatgag aaagctccca gttgggact tatctaca gttgaatcac agtcaagagc gatcaaat atgttggct cagcaagcc agctgtgctc tttaagggt taaacaagcc acacgttata taaacatgt catatagt gaacgttca aatgggaag tataccag acatttaaca tcaatagt atagtgtga ggaagtataa taaacatgt catatagt gaacgttca aatgggaag tgtttaaaa calatttt gaggtgtg alattctt ttgtttact aaattttt agaatattt gaatggcaa atgtgtgaa atcccttat caaattaaa tgggaagaaa gtaatttaa taattttat taatcalag tcaatctt gacttact cacatcaat ctggggccaa acagctcag ttaactgat aattcaggaa caaaaccagc ttgtttgt gcagccgtgg gcaattttag ccaagacatt aggcacctt gttgtatc tgaataatga tggagttgg gacatgttaa ggaanaaaaa tatgttalc accaacaac agctgtcatt tttaactt atcccttgg tgcagcac atttctct tactaacagt ttactgtt cacatttcc ttgattcaa tataagt cagaataaaa aaaaaaaa aaaaaaaa aaaaaa</p>	P	Homo sapiens
642	191168	P2Y12 Platelet ADP Receptor	NM_022788	<p>mtnssststs sttqsslll ceeeeswagr ripvsllysg laiggtlang mvtylvsftr klqtsnafi vngcaadlsv calwmpqev lglptgsae ppadwdgaggyrllrggll glglvsls hclvalnryl litrapatyq alyqrrhtag mlalswalal glvllppwa prgaappri hypallaaa llaqtalllh cylgivrivr vskvrsvln fhllhqlpgc aaaaaafpga qhagpggaa hpaqaqlpp alhprraqr lsglsvlllc cvellatqpl vwvslasgfs lpvpwgvhaa swllccalsa lnplytwnr eefrrsvrsv lpgvgdaaaa avaatavpav sqqlgttraa qghw ggctgcaata actactt actggalaca tcaaacct ccagaatca cagtatcag gtaaccaaca agaaalgcaa ggcgtgcaga acctcact tgcgcctggg aaacaccagc tgtgcaccag agactacaaa atcaccagg tctctccc actgtctac actgtctgt ttgttgg actatcaca aatggcctgg cgaagagat ttcttcaa atccggagta aatcaact tatttttt ctlaagaaca cagtattt tgaattct atgattctga cttttact caaatctt agtattgcca aactgggaac aggacactg agaaacttt tgtgtcaagt tacctcgc atattttt tcaaatga tatcagtatt tcaatctgg gactgtaac tatcagtc taccagaaga ccaccaggcc atttaaaaa tcaacccca aaaaactt gggggctaa gtttctgt tgtatctg ggcalttct ttttact ctgtgtca catgttctg accaaccagc agccagagaa caagaatgt aagaatgt ctctctaa alcaagttc ggttactt ggcaatgaat agtaattac atctgtcaag tcaatttct gataattt ttaatttga ttgtatga tacactcatt acanaagaac tgtaccggtc atactgaaga acgaagggtg taggttaagt cccagggaaa aagggtgaac tcaaatgt cattatcatt gctgtatt ttattgt ttgtcttc catttggcc gaaattct caacctgagc caaacccggg atgtcttga ctgcactgt gaaalact tttttatgt gaaagagagc actgtgtgt taattctt aaatgtatg ctgtgtcgt tcatctatt ttcttctg aatgtctta gaaattctt gataagtag ctgaagttcc ccaattctg aacattctg tccagaga</p>	A	Homo sapiens

643	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	<p>atagagaaaa agaacaggat gggttgacc caaatgaaga gactccaatg taacaaaat aactaaggaa alatticaat ctcttggc tcgaactcg ttaagcaaa ggcataagta aaaaataaa ctagacgaaga agcaactaag ttaalaalaa tgacltaaa gaaacagaag atacaagaag caattttcat ttacccttcc agtatgaana gctacttaa aataagaana actaactaa actgtagctg tattagcagc aaaaacaaag ac</p> <p>MQAVDNLTSA PGNTSLCTRD YKIQVLFP LYTVLFFVGL ITNGLAMRIF P Homo sapiens</p> <p>FQIRSKSNFI IFLKNTVISD LLMILTFPEK ILSDAKLGTG PLRTFVCCVT SVIFYFTMYI</p> <p>SISFLGLITI DRYQKTTTRF KTSNPKNLLG AKILSVVIWA FMFLSLPNM ILTNRQPRDK</p> <p>NVKKCSFLKS EFGLVWHEIV NYICQVFWI NFLIVVCYT LITKELYRSY</p> <p>VRTRGVGKVP RKKVNVKVI IIAVFFICFV PFHFARIPYT LSQTRDVDC</p> <p>TAENTLFYVK ESTLWLTSLN ACLDPFIYFF LCKSFRNSLI SMLKCPNSAT</p> <p>SLSQDNRRKKE QDGGDPNEET PM</p>
644	191193	Trace Amine Receptor 3 (TA3)	AF380189	<p>atggigaata atttccoca agctgaggct gtaggagctg gttacaagaa cgtgaacgaa tcttgcata aaactccita A Homo sapiens</p> <p>ctcgccaggt cctcgatcta tctctacgc cgtccttggc ttggggcgcg tgcctggcagc gtttggaaac ttactggca tgaatgctat</p> <p>cttcacatc aaacaacgac acacacac aaactttcgt atggctgcgc tggcctggc tgaacttcgt gtaggagca ctagatgcc</p> <p>cttcagaca gtaggctcg tggagagcgt tggatctt gggagacagt actgaatai ccatatcagt ttgacacat ccttcgttt</p> <p>tgtctttia ttacattat gcgtatcic tgtataga tcatatgctg ttactgaacc tctgacctat ccaaccaagt ttactggcic</p> <p>agtticaggc alatacatg ttcttctcgt gttctttcti gtcacataca gcttttgcit cttttacacg gtaggccaacg aagaaggaat</p> <p>tgaagaata gtagtgcic taactgtgt aggcctccac tgaatcaaaa cgggttccia cttgtttic ttacttt</p> <p>tataccaat gtcgccaagg tttatata cagttaagata ttgtgtgg ccaagcalca ggcctagggaag atagaagaata</p> <p>cagccagcca agctcagctc tcttcagaa gttacaagaa aagaagaga aagaagctgc caaaaccttg</p> <p>ggaatgcta tggcagcatt tctgtctct tggctacct accctgtga tgcagatgt gatgtatata tgaatttt aactctct</p> <p>taigtatg agatttatt tgggtgtt tatataat cagctatga cccctgtat taltgttct ttaccatg gtttgggaag</p> <p>gcaataaac ttatgaag cggcaaggc ttgaaggcgt atcgcaac aactaatta ttuicgaag aagtagagac agattaa</p> <p>MVNNFSQAEA VELCYKNVNE SCIKTPSPG PRSILYAVLG FGAVLAAGFN P Homo sapiens</p> <p>LLVMIALHF KQLHTPTNFI IASLACADFL VGVTVMPFST VRSVESCWYF</p> <p>GDSYCKFHTC FDTSCFASL FHLCCISVDR YIAVTDPLTY PKFTVSVSG ICIVLSWFFS</p> <p>VTYSFSIFT GANEEGIEL VVALTCVGGC QAPLNQNWVL LCFLLFFIPN</p> <p>VAMVFIYSKI FLVAKHQARK IESTASQAQS SSESYKERRA KREKAAKTL</p> <p>GIAMAAFLVS WLPYLVDVI DAYMNFITPP YVYELVWCV YNNSAMNPLI</p> <p>YAFFYQWFGK AKLIVSGKV LRTDSSTTNL FSEEVETD</p>
646	191196	G Protein- Coupled Receptor GPR80	AF411109	<p>atgaalgagc actagacta ttagaat gcttctgatt tcccagatta tgcagctgct ttggaaat gcactgatga aaacatocca A Homo sapiens</p> <p>ctcaagatgc actaccctcc tttattat ggcttact tctctggagg attccaggc aalgcagtag tgaataccac ttacatttc</p> <p>aaaatgagac ctggagaag cagcaccatc attatgcta accgtggc cagagatcgt cgtatciga ccagcttcc</p> <p>cttctgatt cactatag ccagtgaga aaactggac ttggagatt tcatgttaa gttatccg ttacgttcc attcaact</p> <p>gtatagcagc atctcttcc tcaactgt cagcatcic cgtactgic tgaatcaca ccaatgagc tcttttoca ttcaaaaac</p> <p>tcatgtgca gttgtagctt gtcgtgggt gttgatcatt tcatgttgc cgtcttcc tgaacotc ttgatcat caaccaacag</p> <p>gaccaacaga tgaactgic tgaactcac cagtctggat gnaictaata ctatgaag ttgaacgt atttgacgt caactatt</p> <p>ctgcttccc ttggatag ttacacttg ctataccag attatcaca ctctgacca tggactgcaa actgacagct gcttgaagca</p> <p>gaaagcacga aggttaacca ttcttact ccttgcat ttacgttt ttacocct ccaatctg aggtgcatc gtagcgaic</p> <p>tggcctgct tcatcagt gttcatga gaatcagatc catgaagct acatgttct tagaccatta gctgcttga acacttgg</p>

647	191196	G Protein-Coupled Receptor GPR80	CAC51133.1	MNEPLDYLAN ASDFPDYAAA FGNCTDENP LKMHYLPVY GIIFLVGFP NAVVISYTF KMRPWKSSSTI IMNLACTDL LYL TSLPFLI HYYASGENWI FGDFMCKFIR FSHFNLYSS ILFL TCFSEF RYCVIHPMS CFSIHKTRCA VVACAVVWII SLVAVIPMTF LITSTNRNTR SACLDLTSSD ELNTIKWYNL ILTATTFCLP LVIVLCYTT IIHTLTHGLQ TDSCLKQKAR RLITLLAF YVCFLPFHIL RVIRIESRLI SISCNIENQI HEAYIVSGPL AALNTFGNLL LYVVVSDNFQ QAVCSTVRCK VSGNLEQAKK ISYSNNP tccctggccc ttataaalg actaatc tcaagctc tgaattcct tccgttaaa caggggcgggt aataacaca taacaggctg gtcatgaata tcatgaata tgcagcaggt gctcaagctc tggtttgt tccaggcgga ccagtgaggg tttctgagc atggatocaa ccacccggc ctgggggaaca gaagatgaaca cagtgaatagg aatgaacca gcccttctc tgccttgag caaggagacc ctgatccgg tctctgtat cctttcatt gccctggcgg ggcctgtagg aaacgggttt gtcctaggc tcttgggctt ccgcatggc aggaaagcct tctctgcta cgtctcagc ctggccgggg ccgactctt cttctcgc tccagatta taattgctt ggtgtacct agttaactct tctgtccat cttcatcaat tccctagct tcttccac tgtgatgac tggctccac tggcaggcct gtagcatgag agcaocgtca gcaocgagcg ctgctgtcc gctctgggc ccactggta tgcctggcgc cggccagac acctgtcagc ggctgggtgt gctctgctt gggccctgtc cctactgtc agcatctgg aagggaagt cggggctc ttattagtg atggtagc tggtaggtgt cagacattg attatcac tgcagcgggg ctgatttt taltcaltgt tctctgggg tccagctcgg cctgtcgtt caggatcctc tgggtccca ggggtctgcc acgacacagg ctgtacctga ccactgctt cacaagctcgg ggtctcc tctgcggctt gccctggc attcagtggt tcttaatt atggatcgg aaggatcgg atgtctat tgtcatatt calccagtt cagttgtcct gctatctt aacagcagtg ccaacccat catttact tccgtgggt ctttaggaa gcaagtgccgg ctgcagcagc cgatcccaaa gctgctc cagagggtc tgcagacat tgcagagtg gactcagtg aagatgctt ccgtcaggc accggga tgcagaga cagctgggtg tagatagg caagctctac ttcacataga tataggc ttgtagggc aacttgccc ctgctgtct gatttctga acttctcag tctgattt aaaaagata agagaagctt tggaggat aagtagaca MDPTTPAWGT ESTTVNGNDQ ALLLCGKET LIPVFLIFI AL VGLVGNFG VLWLLGFRMR RNAFSVYVLS LAGADFLFC FQINCLVYL SNFFCSISIN FPSFTTVM T CAYLAGLSML STVSTERCLS VLWPIWYRCR RPRHLSAVVC VLLWALSLL SILEGKFCGF LFSDGDSGWC QTFDFTAAW LIFLMVLCG SSLALLVRIL CGSRGLPLTR LYL TILLTVL VFLLCGLPFG IQWFLILWIW KDSVDVLFCHI HPVSVLSSL NSSANPIYF FVGSFRKQWR LQQPLKLAL QRALQDIAEV DHSEGCFRQG TPMSRSSLV tcatatctt gacattctt ttgaggaaca agtttagat acactggg catttccct gcatatggt gcaaatgctt ggtcctgag actttgctt ttctgcagg ttgagactt gccactagag ctgggattgg tcatgtgac attgcgcctc atggagcca gtagagcagg actcaggga atgcctc cactatggga agaataactg tagatcatct tggaaaggc agacttggt ttaactctt gcttaacaat aataacatag cattggggga tgaatggca atacaggtat ccatagtag ataatatag gacataatc tccacagctg gtaatat gccaaalg gtagcataga tagggatga tggatcca gctatgaggt aatgtagcat gccaaatga atgaattgg cttcattga atctcat ttgccttga aagcaaat gaggcaatg aaggccaggga tggcaatga gccacgcatg gtggcaatg caagtatgga tccctctca cactccagg tgaatctt gggcaaggag acatcacct ctacagtagg tgcctgaag attagcaga ggtgtgcaat gacaocctgg atgcgcggc aagtgagat aataaggatc ggtctataga ggcactcag aaattctgt aattgggga caaagctga ggcagcaaa atttcagag actctgcaa aatgcaggag atgcaaggag taagctcac tccaaacatt gctggcctgg tttaactgt ggaagtctgt ggttcccaa tgaagaagct cgtgctggca	P	Homo sapiens				
648	191218	MrgX2 G Protein-Coupled Receptor	AY042214						A	Homo sapiens
649	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1						P	Homo sapiens
650	191222	G Protein-Coupled Receptor Ls191222	LG94359						A	Homo sapiens

651	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199 719	P	<p>aaattgaggga aatgacagag aagatcacaca tagcagagctc ttaatccccc ggaatgatttc acaacagggg igtticagggti tcttgtaaat attatgcca caacagaac aaatattgati cccagtaggg agagatgaggg gccaaggaggti cctccaggti gagaatttcc acttctttt caaagacatc agtgccttca acagggggccc agtgaattt gttgttgcat aaaaaggcagt gaggcalatc t</p> <p>QTLAMIHSE MINNSTLLPG VKLGYEYDTC CTEVTVAMAA TLRLSKFNC SRETVEFKCD YSSVMPRVKA VIGSGYSEIT MAVSRMLNLQ LMPQVGYEST AEILSDKIRF PSFLRTVPSD FHQIKAMAH LQKSGWNWIG IITDDDDYGR LALNTFIQA EANNVCIAFK EVLPASFSDN TIEVRNRTL KKIILEAQVN VVVFRLQFH VFDLFNKAIE MNINKMWIAS DNWSTATKIT TIPNVKKLKG VVGFAFRGN ISSFHSFLQN LHLPSDSHK LLHEYAMHLS ACAYVKDIDL RLHSIQLA V FALGYAIRDL CQARDQPNP AFQPWELLGV LKNVFTDVG NSFHDAHGD LNTGYDVVLW KEINGHMTVT KMAEYDLQND VFIIPDQETK NEFRNLKQIQ SKCSKECSPG QMKKTTRSQH ICCYECQNCP ENHYTNQIDM PHCLLCNNKT HWAPVRSTMC FEKEVEYLNW NDLSAILLI LSLGIIFFVL VVGIIFFNL NTPVVKSSGG LRVCYVILLC HFLNFASTSF FIGEPQDFTC KTRQTMFGVS FTLCISCILT KSLKILLAFS FDPKLQKFLK CLYRPILIF TCTGIQVVIC TLWLFAAPT VEVNVS LPRV ILECEEGSI LAFGTMLGYI AILAFICFIF AFKGKYENYN EAKFITFGML IYFIAWITFI PIYATTFGKY VPAVEIIVL ISNYGILYCT FIPKCYVVIC KQEIINTKSAF LKMIYSYSSH SVSSI</p>	Homo sapiens
652	193511	EGF-Like Module-Containing Mucin-Like Receptor EMR3	NM_032571	A	<p>tttctgagc taggaaggtt ggttgcttta cggcacagta gagagcttccc agggctgggtt ggcgiggggat acccgtacca cagaataatgca gggacattgct tcttccag gctctgctt tctgtcagc cttcttgag cgtgactca gaaacccaa acttctgig claaatggccc cccaatgct tctgtgctc ataactca ctagcactgc aacactggat atactctgg atctggggcag aaactatca cattccctt ggaagcaltg aacgacatla algaaatgac accaactat agtgaatatt gttgaaatla cgtgtgtgtg tacaatgicg aagggaaggtt ctactgtcaa tgtgtccag gaaatagact gcaatctggg aatgaacat tcaatlaatic caatgaagaa accgtgcagg acaccactc ctcaaaagaca accgaaggcca ggaagaggtt gcaaaaaggtt gttggaacaaat ttgagtcact tctccaat cagacttat ggaagaaaca aggggaagaca gaaatctcat ccaagctac cactatttc cgggagttggg aatcgaaggt tctagaact gcttgaag atcagaaca aaaaagctc'g aaaaatccaa acgatagtgt agctatgaa actcaagcga ttacagaca ttgtcttga gaaagaaga caltaactt gaacgttcaa atgaactcaa tggacalccg ttgcagtgac atcalccagg gaagacacaca aggtcccaagt gccaatgctt ttatctata ttcttctt ggaacacatca taaatgcaac ttttttga gaaagtgata agaaagatca agtgtatctg aactctcagg ttgtgtgtgtg tgcatttgga cccaagaagga acgtgtctct ctccaagtct gttccagca ctttccagca cgtgaagatg acccccagta ccaaaaaggt cttctgtgtc tactgtgaaga gacaggggca gggcagccag tgggtccagg algggtgtgtt cttgtatcac gttgaacaa gttcacacat gttgaatggc agttacactgt ccagcttgc tgtctgtatg gcttgaoca gccaaggagga ggaatcccggt ctagctgtca tcaactact ggggtgtgagc gttctctgic tgtgtctct cctgggtggcc ctaacttttc tctgtgtga agtccatccag aacacagca cctcactgca tctgcagtc tgcctgccc tcttctggc ccaactctc ttctgtgtg ggaatgagc aactgtgaaccc aaggtgtgtgt gttccatcat cggcgggtgt ttgcataic ttaactggc cgccttacc tggatgctgc tggaggggt gcaactctc ctactgtcac ggaacctgac agtgtgtcaac tactaagca tcaatagact caigaaagg atcaatgtcc cagtcgggcta tggcgttccc gctgtgtatg tggccatttc tggccctccc tggccctacc ttatgtgaac tgggtgtgagc tgggtgtccc actgtgacca gggatcaltg tggagttccc ttggccaggt cttgtgtca ttatgtcga attatgtt gttatctg gttcttggga ttgtgaag aaaaattccc tccatcaata gttgaaggtc aacacatccag aacacatccag tgcgtgtt caaagcaaca gttcagctct tcalctgggg ctagacaltg tgcgtgtgtgt ggggtccaggt gccaaggtca tggcctactc ttcaacatc</p>	Homo sapiens

653	193511	EGF-Like Module- Containing Mucin-Like Receptor EMR3	NP_115960.1	<p>atcaacagcc tccaaggctt ctatcatctc ttggcttact gctctctcag ccagcagggc cagaacaacat atcaaaagg gttagagag atcgtaaat caaatctga gctcagagaca tacacactt ccagcaagat gggtcctgac tcaaaacca gtgagggga tgttttca ggacaagga agagaaata ttaaaactag aatattcaac tccataagga aaatcataic catgcatc ttggcatla tgaagaiga agctaaggaa aagggaattc attaaacata tcatcttgg agaggaaatg atcaacctt acttccaag ctgttttc tccacaalag gctctcaaca aatgtgtgt aatgtgtt tcttcaaa aaaaaa MQPPLLPL CFFLSLFGAV TQTKTSCAK CPNASCNN THCTCNHGYT P Homo sapiens SGSGQKLF PLETNCNDINE CTPPSVYCG FNAVYNVEG SFYCQCVPGY RLHSGNEQFS NSNENTQD TSSKITEGRK ELQKIVDKFE SLLTNQTLWR TEGRQEISST ATTILRDVES KVLETALKDP EQKVLKIQND SVAIETQAIT DNCSEERKTF NLNVQMNSMD IRCDIQGD TQPSAIAFI SYSSLGNIN ATFFEEMDKK DQVYLNQV SAAIGPKRNV SLKSVTLTF QHVKMTPTK KVFCVYWKST GQGSQSRDG CFLIHVNKSH TMCNCSHLS FAVLMALTSQ EEDPVLTVIT YVGLSVLLC LLLAALTFL CKAQNTSTS LHLQLSLCLF LAHLLFLVGI DRTEPKVLCs IIAGALHYLY LAFTWMLLE GVHLFLTARN LTVVNYSSIN RLMKWMFPV GYGVPATVA ISAAWPHLY GTADRCWLHL DQGFMSWFLG PVCAIFSANL VLFILVFWL KRKLSSLNSE VSTIQNTRML AFKATAQLFI LGCTWCLGLL QVGPAQVMA YLFTIINSLQ GFFILVYCL LSQVQKQYQ KWFREIVKSK SESETYLSS KMGPDSPSE GDVFPQVKR KY KHA YICLAAI WAYASFVTTM PLVGLGDYVP EPFGTSTCLD WWLAQASVGG P Homo sapiens QVFNILFL CLLLPTAV FSYVKIAKV KSSKEVAHF DSRHSHVL EMKLT KVAML ICAGFLIWI PYAVSVWSA FGRPDSIPQ LSVVPTLLAK SAAMYNPIY QVIDYKACC QTGLKATK KSLGFLRLHT VTVRKSSAV LEIHEEV agcgaacct cggggcgccg gggagccatg ttggagcggc gggagcggc agcagcggc gggatgctgt ggttggggcg gaaaaagcca gggcgccag ccggagggcg tccggcgcg ggttagatgg tggccaggg gggcggggg tgcggagaga caggcggaagg gggcgggggc cggggcgggc gcgagggggc gggagggggc cggagcggcg gggcgagcc aaggccggga cggggcggg gggcgggga gggcgggga gggcgggga gggatggcg agggcgccg cgtggcgggg cctggggga cggcgacc ccatctct gctctctc cttcttct tccctcag ccaggaggag ctggggggcg gggcgacc caggcgtag ctggcctac gggggcaggg ggcataic ggttggggg cttagctt tggcggaat cttcggggt cggggagat gggggggcg gcttgggggt caggagagct atcttggg ggctccgagg gaggagggcaa agcgccggga atagtcgagg gggcgggga agggagctgg ggttgaacac ggcgccagc cattggggcag ccggcggaac gaggagggac agggagaccagg gcttgggta tactggcgcc cagggctc ctctgggg cggaaggag ctttggaa aggttagcttgc taccagggg cttgctct aggggttccg ggttggggga acagctggcc cctcttca gactttga ttgggacca cgggtccag ccgggttctt ccagcgggaa cgttgggaca ggctccggca aaggagggcg caccggcg tcttggggg aattatggg aacagggagc aagggttcaagg gcttgggaga cagcagatcc gggagagaaa gggagagccc cggcggggaac tgttccag gggcgggg atcttgggggt ggttgggt caggacacag caggcgagg acagctcttgc catcaggttc agcaccggc gggcttggga cagctccgga gggcgggc aaggcgagc gctccgggg tcttccg tggcgcttc tccggcgcg cggcgggcg cgttccggg gactccggc ccgtctgaa gcaagggaag taacctggcg gaacggggca cgttttcgc gggcgggca ccggcaccgg cagttccg agttacacia ccaggagctt ggttccggga agtagggcagc agggcgcg ggtttagcg tgggttgcata gggcgggc ggcgggcgagg ccggggcggt agttactc gttggggcac tcaaggagc ccgttggcg gagggttca gcatcgacc</p>
654	193516	G Protein- Coupled Receptor dJ402H5.1	CAC21687.1	<p>agcgaacct cggggcgccg gggagccatg ttggagcggc gggagcggc agcagcggc gggatgctgt ggttggggcg gaaaaagcca gggcgccag ccggagggcg tccggcgcg ggttagatgg tggccaggg gggcggggg tgcggagaga caggcggaagg gggcgggggc cggggcgggc gcgagggggc gggagggggc cggagcggcg gggcgagcc aaggccggga cggggcggg gggcgggga gggcgggga gggcgggga gggatggcg agggcgccg cgtggcgggg cctggggga cggcgacc ccatctct gctctctc cttcttct tccctcag ccaggaggag ctggggggcg gggcgacc caggcgtag ctggcctac gggggcaggg ggcataic ggttggggg cttagctt tggcggaat cttcggggt cggggagat gggggggcg gcttgggggt caggagagct atcttggg ggctccgagg gaggagggcaa agcgccggga atagtcgagg gggcgggga agggagctgg ggttgaacac ggcgccagc cattggggcag ccggcggaac gaggagggac agggagaccagg gcttgggta tactggcgcc cagggctc ctctgggg cggaaggag ctttggaa aggttagcttgc taccagggg cttgctct aggggttccg ggttggggga acagctggcc cctcttca gactttga ttgggacca cgggtccag ccgggttctt ccagcgggaa cgttgggaca ggctccggca aaggagggcg caccggcg tcttggggg aattatggg aacagggagc aagggttcaagg gcttgggaga cagcagatcc gggagagaaa gggagagccc cggcggggaac tgttccag gggcgggg atcttgggggt ggttgggt caggacacag caggcgagg acagctcttgc catcaggttc agcaccggc gggcttggga cagctccgga gggcgggc aaggcgagc gctccgggg tcttccg tggcgcttc tccggcgcg cggcgggcg cgttccggg gactccggc ccgtctgaa gcaagggaag taacctggcg gaacggggca cgttttcgc gggcgggca ccggcaccgg cagttccg agttacacia ccaggagctt ggttccggga agtagggcagc agggcgcg ggtttagcg tgggttgcata gggcgggc ggcgggcgagg ccggggcggt agttactc gttggggcac tcaaggagc ccgttggcg gagggttca gcatcgacc</p>
655	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NM_001407	<p>agcgaacct cggggcgccg gggagccatg ttggagcggc gggagcggc agcagcggc gggatgctgt ggttggggcg gaaaaagcca gggcgccag ccggagggcg tccggcgcg ggttagatgg tggccaggg gggcggggg tgcggagaga caggcggaagg gggcgggggc cggggcgggc gcgagggggc gggagggggc cggagcggcg gggcgagcc aaggccggga cggggcggg gggcgggga gggcgggga gggcgggga gggatggcg agggcgccg cgtggcgggg cctggggga cggcgacc ccatctct gctctctc cttcttct tccctcag ccaggaggag ctggggggcg gggcgacc caggcgtag ctggcctac gggggcaggg ggcataic ggttggggg cttagctt tggcggaat cttcggggt cggggagat gggggggcg gcttgggggt caggagagct atcttggg ggctccgagg gaggagggcaa agcgccggga atagtcgagg gggcgggga agggagctgg ggttgaacac ggcgccagc cattggggcag ccggcggaac gaggagggac agggagaccagg gcttgggta tactggcgcc cagggctc ctctgggg cggaaggag ctttggaa aggttagcttgc taccagggg cttgctct aggggttccg ggttggggga acagctggcc cctcttca gactttga ttgggacca cgggtccag ccgggttctt ccagcgggaa cgttgggaca ggctccggca aaggagggcg caccggcg tcttggggg aattatggg aacagggagc aagggttcaagg gcttgggaga cagcagatcc gggagagaaa gggagagccc cggcggggaac tgttccag gggcgggg atcttgggggt ggttgggt caggacacag caggcgagg acagctcttgc catcaggttc agcaccggc gggcttggga cagctccgga gggcgggc aaggcgagc gctccgggg tcttccg tggcgcttc tccggcgcg cggcgggcg cgttccggg gactccggc ccgtctgaa gcaagggaag taacctggcg gaacggggca cgttttcgc gggcgggca ccggcaccgg cagttccg agttacacia ccaggagctt ggttccggga agtagggcagc agggcgcg ggtttagcg tgggttgcata gggcgggc ggcgggcgagg ccggggcggt agttactc gttggggcac tcaaggagc ccgttggcg gagggttca gcatcgacc</p>

[illegible]

[illegible]

[illegible]

656	193524	Cadherin EGF LAG Seven-Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	<p>gcaaaaggag cagaacaag ggaattcaag accagaatg lapgtgccac tgcctcciat gttiacagga tctccgtgg ccctaggcac ctggctgca ggaagtgaact cctcttctat tocttaaaa agggaaaaat gactgtacg accctgtca caaaactct actttgcta tttgtctgc tgcacagaac tgaagactt aaaaattgt tactgtttac aagtccagat tcaaaaaag ttttaacti gttacaact caaaacttg agttttac ttgtttac gtagataat tttttctt tttttccaag tgaaggtag ggaagtgagg agaggggact ggagagocca cctgtgagga ccttgacctg gccatctga ggggtttct aaacccagg tctccaggc cgaaggtcag ccttgagtc cgttaacag cagatccaga agacttgag agtaggcgic cttaaccac gggggagagt ggtctgtcag ggtctggggg tggctgtgc agacacctc tcacaccac cccatgcat actctggga agcagcttc tggagagta gaaattctac ttccctgact ggagctaat cccaccagcc aggacocaaa ctctcttiac cgagaaggac cccagctcti gaagggtcga gtggcctgct ggggggtgga ggggtcttti actatgctct aggtttcga galgccctc tctggggtc cctctctcca gccacgggc cctcttct gctgtgtaa attgtccgt gaagccggc tctgtttgg gaataaact ctatagaaa caaaa</p> <p>MMARRPPWRG LGERSTPILL LLLLSLPLS QEELGGGGHQ GWDPLAATT GPRAHIGGGA LALCPSSGV REDGGGLGV REPfVGLRG RRQSARNSRG PPEQNEELG IEHGVQLGS RERETGQPG SVLYWRPEVS SCRTGPLQR GSLSPGALSS GVPGSGNSSP LPSDFLRHH GPKPVSSQRN AGTGSKRKRVG TARCCGELWA TGSKGQGERA TTSGAERTAP RRNCLPGASG SGPELDSAPR TARTAPASGS APRESRTAPE PAPKRMRSRG LFRCRFLPQR PGP RPPLPLA RPEARV TSA NRARFRRAAN RHPQFPQYNY QTLVPENEA GTA VLRVVAQ DPDAGEAGRL VYSLAALMNS RSELEFSIDP QSGLIRATAA LDRESMERHY LRVTAQDHGS PRLSATTMVA VTVADRNDHS PVFEQAQYRE TLRENVEEGY PILQLRATDG DAPPNANLRY RFVGPAAARA AAAAFEIDP RSGLISTSGR VDREHMESEY LVVEASDQOQ EPGRSATVR VHITVDEND NAFQSEKRY VAQVREDVRP HTVVLRV TAT DRDKDANGLV HYNISGNSR GHFAIDSLTG EIQVVAPLDF EAEREYALRI RAQDAGRPL SNNTGLASIQ VVDNDHIPI FVSTPFQVSV LENAPLGHSV IHQAVDADH GENARLEYSL TGVA PDTPFV INSATGWVSV SGPLDRESVE HYFFGVEARD HGSPLSASA SVTVTVLDVN DNRPEFTMKE YHLRLNEDAA VGTSVSVTA VDRDANS AIS YQITGGNTRN RFAISTQGGV GLVTLALPLD YKQERYFKLV LTASDRALHD HCYVHINITD ANTHRPFQFS AHYSVSVNED RPMGSTIVI SASDDDVGEN ARITYLLEDN LPQFRIDADS GATLQAPLD YEDQVTTYTLA ITARDNGIPQ KADTTYVEVM VNDVNDNAPQ FVASHYTGLV SEDAPFTSV LQISATDRDA HANGRVQYTF QNGEDGDGDF TIEPTSGIVR TVRRLDREAV SVYELTAYAV DRGVPLRTP VSIQVMVQDV NDNAPVFP AE EFEVRVKENS IVGSVVAQIT AVDPDEGPN A HIMYQIVEGN IPELFQMDIF SGELTALIDL DYEAREQYVI VVQATSAPLV SRATVHVRLV DQNDNSPVLN NFQILFNMYV SNRSDTFPSG IIGRIPAYDP DVSDHLFYSF ERGNELQLLV VNQTSSELRL SRKLDNNRPL VASMLVTVID GLHSVTAQCV LRVVTITEEL LANSLTVRLE NMWQERFLSP LLGRFLEGVA AVLATPAEDV FIFNIQNDTD VGGTVLNVSF SALAPRGAGA GAAGPWFSSE ELQEQLYVRR AALAARSLLD VLPFDNVCL REPCENYMKC VSVLRFDSSA PFLASASTLF RPIQPIAGLR CRCPPGFTGD FCETELDLCY SNPCRNNGAC ARREGGYTCV</p>	P	Homo sapiens
-----	--------	---	-------------	--	---	-----------------

DTEAGRCV PGVCRNGGTC TDAPNGGFR CQPAGGAFEG
SSFV MFRG LRQRFLHLS LSFATVQQSG LLFYNGRLNE
QVRLTYST GESNTVVSP T VPGGLSDGQW HTVHLRYNKK
PSKDK VAVL SVDDCDVAVA LQFGAEIGNY SCAAAGVQTS
LGGVNLPE NFPVSHKDF IGCMDLHID GRRVDMAAFV
KLHFCDSGP CKNSGFCSE WGSFSCDCPV GFGGKDCQLT
TLSWNFGSD MAVSPWYLGLAFRTRATQG VLMQVQAGPH
SVTVTRGS GRASHLLLDQ VTVSDGRWHD LRLELQEEPG
LDFSLFQDT MAVGSELOQL KVKQLHVGG LPPGSAEEAPQ
GSTPSGSPA LLPPSHRVNA EPGCVVTNAC ASGPCPPHAD
QPGYYGPG CVDACLLNPC QNQGSCRHLP GAPHGYTCDC
RMDQQCPRG WWSPTCGPC NCDVHKGFDP NCNKTNGQCH
SCLPDCY PVGSTSRSCA PHSGQCPCRP GALGRQCNSC
RVLYDACP KSLRSGVWVP QTKFGVLATV PCPRGALGAA
EPDLFNCTS PAFRELSLLL DGLELNKTAL DTMEAKKLAQ
YFSQDVRVT ARLLAHLLAF ESHQQGFGLT ATQDAHFNEN
TGDLWAAL QORAPGGSPG SAGLVRHLEE YAATLARME
NIMLSIDR MEHPSSPRGA RRYPRYHSNL FRQDAWDPH
SPSEVLPT SSSIENSTTS SVPPAPPE PEPGISIIL LVYRTLGLLL
RLPQNPVN SPVVSVAVFH GRNFLRGILE SPISLEFRLL
WDPPGLAE QHGVWTDRC ELVHRNGSHA RORCSRTGTF
EGDLELLA VFTHVVAVS VAALVLTAAI LLSRLSKSN
GVAELLFL LGHRTNQL VCTAVAILLH YFELSTFAWL
VEPRNVDRG AMRFYHALGW GVPVLLGLA VGLDPEGYGN
IWSFAGPV VLVVMNGTM FLAARTSCS TGQREAKKTS
VSASWLF GLLAVNHSIL AFHYLHAGLC GLQGLAVLLL
WMPACLGRK APEEARPAP GLGPGAYNNT ALFEESGLIR
ARSGRTO QDSQGRSY LRDNLVRHG SAADHTDHS L
AMFHRDAGA DSDSDSL EERSLSIPS SESEDNGRTR
SERLLTHP KDVDGNDLLS YWPALGECEA APCALQTWGS
ANNQDPD ALTSGDETS L GRAQRKGI KNRLQYPLV
RAATLGR AVPAASYGRI YAGGTGSLSPASRYSSRE
ERLEEAPA PVLPLSRPG SQECMDAAPG RLEPKDRGST
AMAGRFGS RDALDLGAPR EWLSTLPPPR RTRDLDPQPP
DPLPSRP LDSLSRSSNS REQLDQVPSR HPSREALGPL QLLRAREDS
LDLSSIL ASFNSSALSS VQSSSTPLGP HTTATPSATA SVLGPSTPRS
EVRSEGHS
cca gcccccac agcagttggc cctaagica gaalgggact aacactagg ccacccggc
l ctaataca gcacactcc cctggggcg ccatgtcat tgggactat gcgcactat tctgtctg
tgg tctgttcat cgtgtcaag aacgggaca tgcatactgt caccaatcgt ticalctca

A Homo sapiens

658	193914	Neuropeptide FF 1 Receptor	NP_071429.1	<p>accctggctgt cagtgagcttg ctggggggga tcttctgcat gcccaccacc ctgggggaca accctatcac tggggggccc ttccacaatg ccacatgcaa gtagagcggc ttggggcagg gcatgctgtg gtcggcttcc gttttcacac tggggggcat tgctgggaaa aggttccgtt gcatcgggca cctttccg gtagagctga cctggggaaa ggcgcctgc accatcgccg tcaatggggc cctggcgctg ctaatgtt gtcctggc cgtcaccttg accgtaccc gtaggggagca ccaattcatg ggggagcccc gcaacccgct clacccttc tactctgtt gggagggcttg gcccagagag ggcatacgcca ggggtatcac cactgtgtc ttctggcaca ttaactggc ggcgcctggc ctaatgttgg tcaatgttgg cgcacatggc cgcagagctt ggcaggcccc gggcccggcc cccggggggc agtagggcttg ggaacccgga gcatcgccgg gcaagagcggc cgtggggc atgctgggca tggggggctt gttttcacg ctgtctggc tggccttg ggcctgtg ctgctatcg actacggggca gctcacggc cggcagcttg accgtgac cgttaccg ccccttg cgtacggc cagcggctt cggcttttc aacagcagc ccaacccat catctacggc tactcaacg agaaactccg cggggctt cagcggctt cccggccggc cctctggccc cgcccgctgg gtagggccaca gtagggcttacc tccggggc cggcgccggc tctgcaagc cgggcttgc tgggtggc ggcagcgac tccgggctg cctctgagc gggccctagc agtggggccc cagggccggc cggcttccg ctggggaaag ggcgggggc tcaacggc ttgccagg aagggcttg ctgctccac ctgcttca ccatccagc ctgggatac tga MEGEPSPQPN SSWPLSQNGT NTEATPATNL TFSSYYQHTS PVAAMFIVAY ALIFLLCMVG NTL VCFIVLK NRHMTVTNM FILNLAVSDL LVGFCMPTT LVDNLITGWP FDNATCKMSG LVQGMSSVSAS VFLLVAIAVE RFRCIVHPFR EKLTLRKALV TIAVIWALAL LIMCPSAVL TVTREEHFM VDARNRSYPL YSCWEAWPEK GMRRVYTTVL FSHYLAFLA LIVMYARIA RKLQAPGPA PGGEEAADPR ASRRARVVH MLVMVALFFT LSWLPLWALL LLIDYGQLSA PQLHLVTYVA FPFHWLAFF NSSANPIYG YFNENFRRGF QAAFRARLCP RPSGSHKEAY SERPGGLLHR RVFVVVRPSD SGLPSESGPS SGAPRGRPLP LRNGRVAHHG LPREGPGRSH LPLTPAWDI</p>	P	Homo sapiens
659	194319	G Protein- Coupled Receptor FLJ22684	NM_025048	<p>agatactat acttttcc caaacagat aagaagtgat tgaagcaca gatactga ggaaggggc cctcgagtgg tgggtggag aglaaatca ccagtcacag actatgca ccagctgtgc tggcagtc accgggaaaatg aaggtggag tgctgtggct catctttc ttcaactca ctgagggca cgggtgttc ctgggggaaa algatgacal caaaacaaaa aaagaaacta ttggaalaa gaaaaacat ctaggccag tcaagaata tcaagctgtc ctcaaggiga cctatagaga ttcaaggag aaaagagatt tgaagatt tgaagctc tgaagctc catattatg gtcacatggc ctaattagaa ttatcagagc aaaggctacc acagactga acagctga ttgggtctc caggttacct gtagagagc ctacacctgg ttctccct catgctga tcccgagac tctacttc acagggctgg agcactcca agctgtgaat gtcactca caacctcagc cagaagga atttgtga gtagaacaag atttggggca ctccaat taatgaaga ttacaatg acctttga ttacttct gctatact ccaaatatgc aatgggaat gaatacaac ttaaaaaagc atatgaaga attcaaggtt tgaagcggc tcaaggcacc caatttga ttgactctt gtcggcca ttggagga alggcaaat tgaagctc tgaagctc caaccttg caaccttg ctaccgggtt caagagatt cctgtctca gctcccaag tagctggaat taagggcacc tgcaccaca tccagctaac tttttgta ttttttag agacaggggt tcaatgtt ggcacatg gctcaact cctgactca ggtgactgc ctgactggc ccccaaag ctgggattac aggcagagc caccacat ggcctagggc ctaaatatt ggaagcalt ctcaaatc tgggtcag agtagaacta caaaacata gcaataggggc agaaactga aagtagggcag gtagatcag tgaagtgga tgggaaaaag tgaagggggg gtagaggggt tgggggggt cgaaggggtt atttctct tcaagcaacta cagggatlat gtagctcat aatcggagc cagaggtggg gcttggggg gtagatctt tgcacagata catgtataca tcatgttca aaacccagta gctattgtt acagcaata aagaalatt tagtaattt aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaaaaa aaa</p>	A	Homo sapiens

660	194319	G Protein- Coupled Receptor FLJ22684	NP_079324.1	MKVGVLWLIS FFTFTDGHGG FLGNDDIKT KKELIVNKKK HLGPEVEYQL LLQVYRDSK EKRLRNFLK LLKPPLLWSH GLRIJRAKA ITDCNSLNGV LQCTCEDSYT WEPSPCLDPQ NCYLHTAGAL PSCEHLNLL SOSVNFCE KIWGTFKINE RFTNDLLNSS SAIYSKYANG IEIQLKKA YE RIQGFESVQV TQFRMSLLSP KLECNGTI	P	Homo sapiens
661	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NM_030774	algatgtctt gcaacttacc acalgccacc ttgtgtctta ttggtatccc aggattagag aagagccatt tctgggttgg ctccccctc ctttccatgt atgtatggcg aatgttttga aactgcatcg tggcttcat cgttaaggagc gaaacagacc tgcacgctcc galgiacctc ttctctgca tgcctgacgc catgacatcg gccatataca catccacat gccataagatc ctggccdti tctgtttga ttccagagc attagcttgg aggcctgtct taccagatg ttcttattc atgcctctc agccattgaa tccaccatcc tgcctggccat ggcccttgac cgttatgtgg ccacttgcca cccactggcg catgctgcag tgcatacaaa tacaataaca gccacagatg gcatcgtggc tgtgtccgc ggaatccctt tttttccc actgcctctg ctgataagc ggcctggcct ctgocactcc aatgtctct cgcaactcta ttgttccac caggatgtaa tgaagtggc ctatgcagac acttgccca atgtgttata tggcttactt gccattctgc tggctatggc cgtgacgta atgttcatc cctgtctta ttctgata atacgaacgg tctgcgaact gctttccaa g tcaagagcggg ccaaggccti tggaaacctg ggtcacaca ttgtgtgtgt actgccttc tatgtgccac ttatggcct ctacgttgtta caccgcttg gaaacagcct tcatccacti gtcgtgttg tcalgggtgga catctaccg ctgtcgtcc ctgtcatcaa tccatcatc tatgttgcca aaaccaaa gatacgaaca cgggtgctgg ctatgttcaa gatcagctgt gacaaggact tgcaggctgt gggagggaag tga MSSCNFTHAT FVLIGIPGLE KAHFWGFPPL LSMYVVMFNG NCIVFVIRT ERSLHAPMYL FLCMLAIDL ALSTSTMPKI LALFWFDSRE ISFEACLTM FFIHALSAIE STILLAMAFD RYVAICHPLR HAAVLNNTVT AQGIVAVVR GSLFFFLPL LIKRLAFCHS NVLSHSCYVH QDVMKLAYAD TLPNVVYGLT ALLVMGV DV MFISLSYFLI IRIVLQLPSK SERAKAFGTC VSHIGVVLAF YVPLIGLSV HRFNGSLHPI VRVVMGDIYL LLPVVPNPII YGAKTKQRT RVLAMFKISC DKDLQAVGGK	A	Homo sapiens
662	194431	Olfactory Receptor, Family 51, Subfamily E, Member 2	NP_110401.1	actttttta tgtctctt ggtgtgaaga tgaagaat gaaagcagag tatgcaccti ttattagag attcaactg catctactg gattagcctc aagaactcta aaatatacaag acatccatc tgcagatcac tgaaggagag actgtttt ctgttttga atagtctcg atataactt ttatgtcaag aagaataa gcaatgatt tctacccag gagtggat ttgtgtggc ttacacatgg ctccctgccc tgccttgaac cttaggggtc tgggtgtgt cgtgtgtgga ctactgacg gcalcatitt gggacgtggc atctggagga ttgtgacag gatccaaa ggaatactia ctctcatc aagcacccct acagagttct gcaaggatgg tggaaacctgg gaaaatggca gatgtattg tacaagaag tggaaaggac tgaatgtac aatgtcta ttgtgaaa atagtacta tatgggttt acttttgcca gaatccagt gggcagatat ggaacctct tgcacaatg tggcaagat actccaaatg ogggcaatcc aatggcagtc cgggtgtgca gtctctct atatgaagag atagaattac aaaaagtgac aataggaat tgcataa atcttggaaac ccttggaaag caggtatagag atgtcacagc accactaat aacatttct ctgaagttca gattttaca tctgtatgcca ataaattac tgcgtgaagc atcacatgt ctacgtgtgt ggttggacag atattcaaca ctccagaaa tgccttcc ggggcaaa ggtgtgcat agtaacagtg agtaacctc tagatgccag tgaagatgt ttcaaaagtg ttgtgtctac tgcataatgat gatggccctta caacgttat tgaacaatg gagaattat cctgtcti gggatataca tcaatgtgg aacatacat agcaatagag tcaagcaaat tctcttcaaga aaatggcgtg gggcccttcaa atgttgcct ctctgtcag aaaggagctia gcaatctct agtttctat tcaacattia tatalacaaa tgggtatggc cttaacccag atgcacagc atgacttcag gtctgtcta atatgacgaa aaattacacc aagacatggc gctttgtat tatalaaaat gacaagcti tccatacaaa aacttttaca gctaaatcgg attttatga aaaaattatc tcaagcaaaa ctgatgzaaa tgaagcaagat cagatgtgt ctgtgtacat ggtcttatt ccaaaagtaca accaaaaaga atttcaactc tatctctat cctgtgtctia ttggaaatg tcaagcgaag actgggacac atatggctgt caaaaagaca aggggacatga tggattccgt cgtctccgt gcaacccatc tactattt gctgtataaa tgaattcaa aagagattat caatatcca	P	Homo sapiens
663	194743	FLJ14454	NM_032787		A	Homo sapiens

666	194745	G Protein- Coupled Receptor SLT/MCH2	NP_115892.1	<p>aaccatttgc actgacacgt tggagaacaa ggtaacagac catccggatc aatttggggc ttgtggcagc ttctttatc ctggcattgc ctgtctgggt ctactgaag gtaacaaat ttaagacgg tgrtagagt tgrtctttg attgacatc cccigacgat gtactctgt atacacttta ttggcgata acaacttiti ttitccctt acccttgati ttgtgtgtct atatttaatt ttaigtctat acttggaga tgaataca gataaaggat gccagatgct gcaatccocag tgaatacaaa cagaragatga tgaagtggac aaagatgggt ctgggtctgg tggtagtcti tatcttagt gctgccccti atcaltggt acacttgggt aactiacaga tggaaagoc cacatggcc ttctatggg gttattacct cttcatctgt ctacgtatg ccagcagcag cattaaacct ttcttata tcttctgag tggaaatttc cagaagcgc tgcctcaaat ccaagaaga ggcactgaga aggaatacaa caataaggga aacacttga aatcacacti ttaggaaagt acatggatca ccatgagct agacatgati gctatctta ctgtattat tagaaaggcc aggtgacccg ataigtat ggcatttct ctgtgtact tgtgactt agcagcatgg aagagaagt taoccatgca aatacaatga gcttaatatg ctaactgtaa aaaaaaaa aaaaaaaa</p>	Homo sapiens
667	194756	Chemokine Receptor FKSG80/GPR81	NM_032554	<p>ccacacac aggaaccca tcttgggtga tgaagtga cagcagcag cttgggtgagt gtaacgctc agataagcat ctgtgocatt gttgggagtc ccttgggtcgc tctgcacccg gacattgct ctgtccccc catgtacaac ggtctgtgt gocgcatcga gggggacac atctccagg tgaatgocgc gctgtctatt gttggcttgg tcttgggcgc actaggcaat gggtgctgccc tgtgtgtt ctgtctcac atgaagacct ggaagccocag cactgtttac ctittcaatt tggccgtggc tgaattctc cttaigtat gccgtgctti tgggacagac taatactca gactgaaga cttgggtt ggggacatc cctgcccagt ggggtcttc acgttggcca tgaacaggggc cgggagcatc gtttctta cgttgggtgc tgcggacagg taattcaaa gtttccaccc ccaccaagcg gtaaacacta tctccacccg ggttggcgtct ggcacgtgct gcacctgtg gggccctggc atccctggga cagtgtatct ttgtctggag aacctatct gcgtgcaaga gacggccgc tctgtgaga gcttcatcat gtagtggcc aatggctggc atgacatcat gttccagctg ggttctta tgcctctgg catcttta ttgtctct tcaagtatgt tggagcctg aggcggaggc agcagctggc capacaggt cgtatgaaga aggcgacccg gttcatcatg gttgtggcaa ttgtgtcat cacatgtac ctgcccagcg tgtgtgtag acttatct cttggagcgg tgcctcgag tgcctggat cctctgtoc atggggccct gcacataac ctacgttca cctacatga cagcatgctg gttccctgg tgaattati ttcaagcccc tctttcca aatctaca caagctcaaa atctgcagtc tgaacccaa gcagccagga cactcaaaa cacaaggcc ggaagagatg ccaatttga acctggctg caggagtgc atcagtgtg caaagatt ccaagccag tctgtgggc aatgggcatcc ccacatgti ggtggcact gaaacagcag accaacaac ctgaggaga tagagtggtg actagaatt aactgtgt aagggttgg ggtgttga aatggcaccc ccttttcta ttgcaagcg gctctcga catgaactgc atcttctca tctgttga aatgaatt acacact accittgg ggttccag tt</p>	Homo sapiens
668	194756	Chemokine Receptor FKSG80/GPR81	NP_115943.1	<p>MYNGSCCRIE GDTISQVMPP LLIVAFVLGA LGNGVALCGF CFHMKTWKPS TVYLFNLVA DFLLMICLPF RTDYLLRRH WAFGDPCRV GLFTLAMNRA GSIVFLTVVA ADRYFKVVHP HHAVNTISTR VAAGIVCTLW ALVILGTVYL LLENHLCVQE TAVSCSFIM ESANGWHDIM FOLEFFMPLG ILFCSEFKIV WSLRRRQOLA ROARMKKA TR FIMVVAIVFI TCYLPVSAR LYFLWTVPS ACDPSVHGAL HITLSFTYMN SMLDPLVYYF SSPSPKPFYN KLKICSLKPK</p>	Homo sapiens

671	194858	G Protein-Coupled Receptor LS194858	LG94710	QGLFIFLHC LLNSEVRAAF KHKTKVWSLT SSSARTSNAK PFHSDLMNGT RPGMASTKLS PWDKSSSAH RVDLSAV	A	Homo sapiens
672	194858	G Protein-Coupled Receptor LS194858	ENSP000000053	<p> ttaigtcaag tcaaggtcga cactgtcttg gctgtctggg tggtaggcaa tgcctggggcc gggactgtcc cggagggtc ttcccacag cccctgcagg caacttgggt cggctgcccct ccaagggggtgt ggtatggcgt gatggcccaa cccalggct acgggacttg ccgtgtcact ggcacttctt agggagagagga gggacacag tgtccaggcc cccagtggcg gggcgtgtc alaggccagg actgagagga gcatgtggcg cactgtggcg cccagcaca gcccgaaagag cagcaltggt ccaagccttg cccitggctg cctccaggta agggcccggg ccaaggcgga gggctcagc cggcacatcg ccgctccag ccggcagatg tctgtcagct ggggggtggc agtggccagc acgctggacag agaggaaggc agcagcacc acggcgggca gcaaggagcc atagacttg aggtacaggt agggggcttg gtagagacc tgggagctgc agtggccac aggggtccag tgggtccacc ccaggcggg cagactggca aagagcagg gaccagcca ggtgagagc agggccagcc gaaigtccc agggggcttg agtggccca ggaactgcat gtagcctcc ccgtgcacca gcaagagt ggcagacagg gtagaggaag agaaagtggg agccaagtag acgagggggc agggaccagta acccgcgca ctctgttcc acagcccttg caatgtggcg aatgccagac ccgtgagcag ccagccagc agtaggctca ggaagagca gccagcaggt gggctgcgca gggcgcgctg ccaaggcgatg ccaggggcta ggaagaggt cgcgtgtg agtaggttg ccaggccag ggaaggccc aaagccccc tgggaaagg gctgggccc tggccagtg tgtggggct cactgtgt cttgggacag gggagctctg gaggcgcg cggcatgc gctgggccc tggccagtg tgtggggct cactgtgt cttgggacag gggagctctg gaggcgcg cggcatgc </p>	P	Homo sapiens
673	194878	MrgX3 G Protein-Coupled Receptor	AY042215	<p> QDTRHGNRC RAGCSNLT RKAQAGQAP APNSHACRLP LQDSPVPRTK MTPNSTGEVP SPIPKGALGL SLALSLIT ANLLALGIA GTAACAAATCW LLLPEPTAGW AAHGSGIATL PGLWNQSRG YWSCLLVYLA PNFSFLSLLA NLLLVHGERY MAVLRPLQPP GSIRLALLT WAGPLLFASL PALGWNHWTP GANCSSQAIF PAPLYLEVY GLLPFAVGAA AFLSVRVLAT AHRLOQICR LERAVCRDEP SALARALTWR QARAQAGML LFGLCWGPYV ATLLSVLAY EQRPLPGPT LLSLLSGSA SAAAVPVMG LGDQRYTAPW RQPPKGACRG CGEPPPGTVP APALTTQAA KAVSTWT </p>	A	Homo sapiens

674	194878	MrgX3 G Protein-Coupled Receptor	AAK91806.1	MDSTIPVLGT ELTPINGREE TPCYKQTLSE TGLTCTIVSLV ALTGNAVVLW LLGCRMRRNA VSYIYNLVA ADFLFLSGHI ICSPLRLNI RHPISKILSP VMFTFYFIGL SMLSALTER CLSILWPIWY HCRRPRYLSS VMCVLLWALS LLRSILEWMF CDFLFGADS VWCETSDFIT IAWLVFLCVV LCGSSLVLV RILCGSRKMP LTRLVYVILL TVLVFLLCGL PFGIQWALFS RIHLDWKVLV CHVHLVSIFL SALNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDTPV VDEGGGWLPQ ETELESGSRL EQ	P	Homo sapiens
675	194903	G Protein- Coupled Receptor GPCRB3	LG100657	icaegteggag ccgcagagccgc tgcgtagtc ctgaatggag gctctggaggt gctctgfgct gttgagggct eggcggcaga ggatcactga gactiaaggc agaaataatcc caccggagagcc gctgcacagg ctgcacagcc cagccatcat gttggccgca ggcagggtact tgcgcctgta gacgctggcc gttgtggaaga agggcgaaca ggacacagag ttgaagagca ggtctgaaggt ggacatttg gctcgtgtgt agttctgtgg caagtcccta cccagggtagc tgcaggcaca ggacactgaag ggaagggagggc cattgtaaga gaaaggccagt atgaagccca gggtggttgggt ctctgtggcac tcaagctatca ccaggatgggg gaaagcgtggg tattccctag cagggcagttgg ggtccacacc accaggccaa ttgagacagt aagcagctggg gcccgtggagc tgaatcac aaacaggcca gcaocgggtgt ttggagccca gggtggtggtag aatgtatggta cctgtgtggga aaacttgaag atgatgatta gttgggaatga ggcgaactgtc agggcaggaca ggaaggaatgtt gaaacacagg gcaaaaggaggc cctgggcgttag caagcacgca ggccctgtgg gttcccaaa gaaagccatag aggtctggccac taactgtgc caagggtggccc agcalaaagaa agcacaggccg ggccctgtgt gacctaccca cagggggtgtc taagtgtccag gcaaaacaggc caggcagttccc aagcagcagc agcaggcagca gggtgttagc tgcacagcagc accaaaggagg tgtgtctcag caaaggccaaa aacacacacag tgcggcgggaaa gcaagctcggg cttccctcag gttgcccac tcttccca cagggtcggc atctgttagag gttctgaagg gaaagggtccaa aaggtttcttg aggccagat gaaagagga gaaatagaa ataggggccct gcaagataat gggaagaaatg taocagggggca gctagactat actaaggcata gttgggaatggg ggttagccggg agtggggccct gaaaggccagc atttctcaa aatgctgtgt taaatacag actctgggga cacaagggtc ggtctgtat ggtctatgat cccatgaaggc ttggcaaac cctaggggagg accttaacct ggtaagctcgt cccacatacc agaaagggtta cgtatcagat gggaagcagct gctcccaagg gtaagggtcattg taacccctct ctctggocag caattccatg aacacttic ctgaagctgt gctctgtgggt ttctgtgaag cctggacccct gtaggtacaga aggggtat tctgtccct acagaaagagg tgaagggaaa gaaatgtggcc cctgggacac aactaaggag ctgaagttcctt agctacccaa ttgtctct gttctgacc ttgcaattt ggaatgggga tgcgttttt ttctgtctgc cagacacagct agatctgtia ttacggccaa gctgttcaag gaggtagctg tctttgggcat gggtcaaca ggggtgaagaa ggaacaaagagg gcaacaaagg aaacaaagct ataatcatt agaaagaaagg gttgaattca ggaacagact gctttgttag gttgtgtgat gaaagctctc taacaaaggg caacctcag tcaagggtt tcagtgtgct aatttctt tcttctt ttgttga gaaagttt ctctgtgc ccaggctggga gttcaatgtt gcaatctgg ctacgtgca cctccgctc ccgggttcaa gcaatttcc tgcctcagcc tccctggtag ctgggaatc aggcagacgc cacaagccc gggttaactt ttgttatt ttgtagtaga tgggtttica ccatgtgtgt cagggtgggtc tggaaactct gaactcaggt gataccacca cctcggccct ccaaggtgt ggtgattacag gttgtgaagcca ccggccggcc cctcttct ttttgggg ggaaggaatc tgcgtgtgt gttccaggctg gaaatgcat tgggtcagct caacctccgc ctctgggtt caagtgatc tctgtccca gctcccgag tagctgggtg taccaggcac ggtccacca cccagtaat tttaatt ttgggttag aggggtttc accatgtgg ccaggctgtt ctgggaactcc cgaactcaag tgaatccacc gctcagctt cccaaagggtc tgggtataca ggcataggcc accgcaacca gttgtgtgt ctctgtatca gaaatctgtc tggtagcagg gttctcccaa cctgaagctc actggcagcc cagtgactgtg gcttgggtc tgggtggcagg cactgggtg ccaaggggtg ccttccctcc accgtggcagc ccccgggtgt gctgggttagc tgcgtgtctc cattggccac tcaacctt tttgtgtgaa gttgtccagcc ccacagggtc cacactcaaa gcaagcaatga tggaaacccg taacactcgt ctgggtgacct tcaagtaagt cgtgtggtaaca cagagactta ggacactgta agaaagccaa gggtccacac gtaagggtcc aagtcaaaagg acagctcaca tggtagaag aaaaagaa ctctgtgcat ctgcccctcag ggtctactcc cagggtcagggg cccctgtgtc tggtaactc ggtcccaagg cactgtcaca	A	Homo sapiens

[illegible]

677	194904	WO0034334- hFB41A	AX147788	VLGSSTWSPV QLNINETKIQ WHGKNHQVPK SVCSSDCLEG HORVVVTGFHH CCFECVPCGA GTFLNKSELY RQPCGTEEW APEGQTCFP RTVVFLALRE HTSWVLLAAN TLLLLLLGT AGLFAWHLDT PVRSAAGRL CFLMLGSLAA GSGSL YGFFG EPTRPACLLR QALFALGFTI FLCLTVRSF QLIIFKFST KVPFYHAWV QNHGAGLFVM ISSAAQLLIC LTWL VVWVPL PAREYQRFP LVMLECTETN SLGFLAFLY NGLLSISAF CSYLKGDLP NYNEAKCVTF SLLNFVSWI AFFTTASVYD GKYLPAANMM AGLSSLSSGF GGYFPLKCYV ILCRPDLNST EHFQASIQDY TRRCGST gagcaacatg atcttttga agtactgac ggtgtcgttc ttgacgtgcca cgaagcacacag agtntgtac atgctgttc tcatggcat A gcactgcagc atgtatgaagg cagtgaaggta ggtctctcc ttacaaca cgggtgggga gaaatgcgc acgatgttga agccgttagaa gggcgccacg calagcacgt aggcgtgtgag gatgacacatg agcacccagga ccgtcttctt ggcgcagcgc agcccttgc ggtatctgtc tgtcttggaat ccaggagacc ccttgaacca ggtctccgg ggtatccctg calagcacag ggtcatgtgt accaggggc ccacgaatc tatgcaaaag ataaagagga agttagacti gtagtagagc tctgtgtcca caggccagat ctggccg-cag aagatcttt ctgtctct gacaatgac aggaacc-gtct cgggtgtgaa gtaggcggaa ggatgtgga tcaagatgga caccgtccac accaaggcaa taggccagt ggcgtttgg cacttatic gttgtctcag cggatggaca alagccagat acctaggga agaacacaag tggaggcagc c MGFMDDNATN TSTFSLVLN PHGAHATSP FNFSYSDYDM PLDEDEDVN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVLSYVSTNA LLALADRYL AIVHPLRPRM KCQTATGLIA LVVTVSILIA IPSAYFTTET VLVIVKSOEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCLRK ggcac-gagcc gccggccgc atgtggagct gcagctggtt caacggcaca gggctgtgtgg agtgagctgccc tgcctgcag gacctgcagc tggggctgtc actgtgtcg ctgttgggoc tgggtgtgg cgtgcagtg ggcctgtgtt acaagccct gctgtgtctg gccaaactac acagcaaggc cagcatgacc atgcccggacg tgtattgt caacatggca gtaggcagccc tgggtctcag cggccctggcc cctgtgcacc tgcctggccc ccgagctcc cgggtggcgc tgggtgtgtt gggcggggaa gtccagtggt cactgcaat cccctcaat gttcttcac tgggtgcat gttatccacc gccctgttga gcttcgacca ctacatcgag cgtgcactgc cgcggactta catggccagc gtttacaaca cgtcggcacgt gttgggcttc gttgggggtg gcggctgt gaccagctc tctctgtc tcttlatat ctgcagccat gtttccacc gtcggttaga gttcgccaag atgcagaacg cagaagctgc cgaagccag ctgtgttca tgggtcagct gttgcagca ctggccacc tctacgtct ggtgtctac tcccgctcc gcaaggagga caccgcccctg gacccgggaca cgggcccgtt ggaagccctcg gcacacaggc tgcgtgtggt caccgtgtc accgagtttg ggtctgtgac gccacatat ctatctcgc tggggcacac ggtcatc tcgcgaggga agcccggtga cgcacatc ctggggctac tgcattgt gaaaggattc tccaaactc tggccttc cagcagcttt gttgacacc tttctacc ctacatgac cagagcttc ccagcagct ccaaggtctg atgaaaaagc tggccgtcgg ggaocggcac tgcctcccgg accatggg ggtgtcagcag gttctgtggt agggcgcca gccctctgg ggaagctga ctctgtgtga cgcagagcac ttatgacc tggagctcc ccacatctt ccagaaagag acgagctgt ggaagagag caggaagggt gttttcttg aagttctt ttccacaa atgcactct tggggcaggg ctgtgttcc cgtgtgtggt atctgtgtg agtctcccg aggcctgtgc gttccacaa cagcagctc aaggtccaca tctgcaaaag	Homo sapiens
678	194904	WO0034334- hFB41A	LR114	gagcaacatg atcttttga agtactgac ggtgtcgttc ttgacgtgcca cgaagcacacag agtntgtac atgctgttc tcatggcat A gcactgcagc atgtatgaagg cagtgaaggta ggtctctcc ttacaaca cgggtgggga gaaatgcgc acgatgttga agccgttagaa gggcgccacg calagcacgt aggcgtgtgag gatgacacatg agcacccagga ccgtcttctt ggcgcagcgc agcccttgc ggtatctgtc tgtcttggaat ccaggagacc ccttgaacca ggtctccgg ggtatccctg calagcacag ggtcatgtgt accaggggc ccacgaatc tatgcaaaag ataaagagga agttagacti gtagtagagc tctgtgtcca caggccagat ctggccg-cag aagatcttt ctgtctct gacaatgac aggaacc-gtct cgggtgtgaa gtaggcggaa ggatgtgga tcaagatgga caccgtccac accaaggcaa taggccagt ggcgtttgg cacttatic gttgtctcag cggatggaca alagccagat acctaggga agaacacaag tggaggcagc c MGFMDDNATN TSTFSLVLN PHGAHATSP FNFSYSDYDM PLDEDEDVN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVLSYVSTNA LLALADRYL AIVHPLRPRM KCQTATGLIA LVVTVSILIA IPSAYFTTET VLVIVKSOEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCLRK ggcac-gagcc gccggccgc atgtggagct gcagctggtt caacggcaca gggctgtgtgg agtgagctgccc tgcctgcag gacctgcagc tggggctgtc actgtgtcg ctgttgggoc tgggtgtgg cgtgcagtg ggcctgtgtt acaagccct gctgtgtctg gccaaactac acagcaaggc cagcatgacc atgcccggacg tgtattgt caacatggca gtaggcagccc tgggtctcag cggccctggcc cctgtgcacc tgcctggccc ccgagctcc cgggtggcgc tgggtgtgtt gggcggggaa gtccagtggt cactgcaat cccctcaat gttcttcac tgggtgcat gttatccacc gccctgttga gcttcgacca ctacatcgag cgtgcactgc cgcggactta catggccagc gtttacaaca cgtcggcacgt gttgggcttc gttgggggtg gcggctgt gaccagctc tctctgtc tcttlatat ctgcagccat gtttccacc gtcggttaga gttcgccaag atgcagaacg cagaagctgc cgaagccag ctgtgttca tgggtcagct gttgcagca ctggccacc tctacgtct ggtgtctac tcccgctcc gcaaggagga caccgcccctg gacccgggaca cgggcccgtt ggaagccctcg gcacacaggc tgcgtgtggt caccgtgtc accgagtttg ggtctgtgac gccacatat ctatctcgc tggggcacac ggtcatc tcgcgaggga agcccggtga cgcacatc ctggggctac tgcattgt gaaaggattc tccaaactc tggccttc cagcagcttt gttgacacc tttctacc ctacatgac cagagcttc ccagcagct ccaaggtctg atgaaaaagc tggccgtcgg ggaocggcac tgcctcccgg accatggg ggtgtcagcag gttctgtggt agggcgcca gccctctgg ggaagctga ctctgtgtga cgcagagcac ttatgacc tggagctcc ccacatctt ccagaaagag acgagctgt ggaagagag caggaagggt gttttcttg aagttctt ttccacaa atgcactct tggggcaggg ctgtgttcc cgtgtgtggt atctgtgtg agtctcccg aggcctgtgc gttccacaa cagcagctc aaggtccaca tctgcaaaag	Homo sapiens
679	194905	G Protein- Coupled Receptor MGC7035	BC014241	gagcaacatg atcttttga agtactgac ggtgtcgttc ttgacgtgcca cgaagcacacag agtntgtac atgctgttc tcatggcat A gcactgcagc atgtatgaagg cagtgaaggta ggtctctcc ttacaaca cgggtgggga gaaatgcgc acgatgttga agccgttagaa gggcgccacg calagcacgt aggcgtgtgag gatgacacatg agcacccagga ccgtcttctt ggcgcagcgc agcccttgc ggtatctgtc tgtcttggaat ccaggagacc ccttgaacca ggtctccgg ggtatccctg calagcacag ggtcatgtgt accaggggc ccacgaatc tatgcaaaag ataaagagga agttagacti gtagtagagc tctgtgtcca caggccagat ctggccg-cag aagatcttt ctgtctct gacaatgac aggaacc-gtct cgggtgtgaa gtaggcggaa ggatgtgga tcaagatgga caccgtccac accaaggcaa taggccagt ggcgtttgg cacttatic gttgtctcag cggatggaca alagccagat acctaggga agaacacaag tggaggcagc c MGFMDDNATN TSTFSLVLN PHGAHATSP FNFSYSDYDM PLDEDEDVN P SRTFFAAKIV IGMALVGIML VCGIGNFIFI AALVRYKKLR NLTNLLIANL AISDFLVAIV CCPFEMDYV VRQLSWEHGH VLCTSVNYLR TVLSYVSTNA LLALADRYL AIVHPLRPRM KCQTATGLIA LVVTVSILIA IPSAYFTTET VLVIVKSOEK IFCGQIWPVD QQLYYKSYFL FIFGIEFVGP VVTMTLCYAR ISRELWFKAV PGFQTEQIRK RLRCRRKTVL VLMCILTAYV LCWAPFYGT IVRDFFTVF VKEKHYLTAF YIVECIAMSN SMINTLCFVT VKNDTVKYFK KIMLLHWKAS YNGKSSADL DLKTIGMPAT EEVDCLRK ggcac-gagcc gccggccgc atgtggagct gcagctggtt caacggcaca gggctgtgtgg agtgagctgccc tgcctgcag gacctgcagc tggggctgtc actgtgtcg ctgttgggoc tgggtgtgg cgtgcagtg ggcctgtgtt acaagccct gctgtgtctg gccaaactac acagcaaggc cagcatgacc atgcccggacg tgtattgt caacatggca gtaggcagccc tgggtctcag cggccctggcc cctgtgcacc tgcctggccc ccgagctcc cgggtggcgc tgggtgtgtt gggcggggaa gtccagtggt cactgcaat cccctcaat gttcttcac tgggtgcat gttatccacc gccctgttga gcttcgacca ctacatcgag cgtgcactgc cgcggactta catggccagc gtttacaaca cgtcggcacgt gttgggcttc gttgggggtg gcggctgt gaccagctc tctctgtc tcttlatat ctgcagccat gtttccacc gtcggttaga gttcgccaag atgcagaacg cagaagctgc cgaagccag ctgtgttca tgggtcagct gttgcagca ctggccacc tctacgtct ggtgtctac tcccgctcc gcaaggagga caccgcccctg gacccgggaca cgggcccgtt ggaagccctcg gcacacaggc tgcgtgtggt caccgtgtc accgagtttg ggtctgtgac gccacatat ctatctcgc tggggcacac ggtcatc tcgcgaggga agcccggtga cgcacatc ctggggctac tgcattgt gaaaggattc tccaaactc tggccttc cagcagcttt gttgacacc tttctacc ctacatgac cagagcttc ccagcagct ccaaggtctg atgaaaaagc tggccgtcgg ggaocggcac tgcctcccgg accatggg ggtgtcagcag gttctgtggt agggcgcca gccctctgg ggaagctga ctctgtgtga cgcagagcac ttatgacc tggagctcc ccacatctt ccagaaagag acgagctgt ggaagagag caggaagggt gttttcttg aagttctt ttccacaa atgcactct tggggcaggg ctgtgttcc cgtgtgtggt atctgtgtg agtctcccg aggcctgtgc gttccacaa cagcagctc aaggtccaca tctgcaaaag	Homo sapiens

680	194905	G Protein- Coupled Receptor MGC7035	LR112	<p>ccctctgccc ttacgctccc tcagcattca gttgtgcaat gaagtgatga agcttagag ccagratia tactttggg taaataact tgattcccc ttgtttgtt tacaaaaa gatgttccct agaaaaatga caaatagtaa aatgaacaaa accctacgaa agaatggcaa cagccaggggt ggccggggccc tgcagtggtg cggcgtgtgc tagcaaggcc tgcgggtgt ggcgagtgta ccacaggggt ctgagaacat ttacagaag tgcctgagac gggagagacat ggtgtgtgtt aaatggagct attcaatagc agtgacgcgc ttctctcagc caccaaatgt cctgacacc cttcccagcc ccacagata acatcagctg aggttttt cagiatgaac ctgtcttaaa tcaattctc aaagtgtga caaaactaaa gaatatataat aaacaaaaa aaggtagaaa aaaaaaaa aaaa MWSCSWFNGT XLVEELXACQ DLQLGLSLLS LLGLVVGVPV GLCYNALLVL ANLHKSASMT MPDVVFVNMA VAGLVLSALA PVHLLGPPSS RWALWSVGG VHVALQIPFN VSSLVAMYST ALLSLDHYIE RALPRTYMAS VYNTRHVCCGF VWGGALLTSF SLLFYICSH VSTRALECAK MQNAEAADAT LVFIGYVYVPA LATLYALVLL SRVRREDTPL DRDTGRLEPS AHRLLVATVC TQFGLWTHY LILLGHTVII SRGKPVDAHY LGLLHFVKDF SKLLAFSSSF VTPLLRYMNM QSFPSKLQRL MKKLPCGDRH CSPDHMGVQQ VLA TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC CTGAATGCGC GCGGGCAGCG GCGACGCGC CTTTGGCAG CCTGGAGCAA GCCAACCGCA CCCGCTTCC CTCTCTCC GACGTCAAG GCGACCAACG GCTGTGCTG CCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTGCAG TGTGCTGCT GGGCAACGTG TCGCCCTGG TGTGTGTCG CCGCCGACG CGCCGCGCG CAGTGCCTG CCGGTACTC AACCTCTCT GCGCGGACCT GCTCTCATC AGCGTATCC CTCTGTGCT GCGGTGCGC TGGACTGAGG CCTCCCTGCT GGGCCCCGT GCGTCCACC TGCTCTCTA CGTGATGACC CTGAGCGGA GCGTCACCAT CCTACGCTG CCGCGGTCA GCCTGGAGGG CATGTGRC ATCRGCACC TGGAGCGCG CCGCGGGT CCTCCGCGG GGCGCGGGC AGTGCTGCT GCSTCATCT GGGCTATC GCGGTGCGC GCTCTGCTC TGTGCTCT CTTCGAGTC GTCCCGCAAC GGCTCCCGG CGCCGACCA GAAATTCGA TTTCACACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGGATGC TCTTTGTTA CTTTGAACCT CTGTGTGCA GGACTGGTCA TTGTATCAG TTACTCCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGTCACCG TAAGCTGGC CTACTCGGAG ACCACCAGA TCCGCTGTC CCAGCAGGAC TTCCGGCTCT TCCGCACCCT CTTCCTCTC ATGGTCTCT CTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCTC CATCTGATC CAGAACTCA AGCAAGACCT GGTATCTGG CCGTCCCTC TCTTCGGGT GGTCCCTTC ACATTTGTA ATTCAGCCC AAAOCCATC CTCTACAACA TGACACTGTG CAGGAATGAG TGAAGAAA TTTTGTCTG CTTCTGGTC CCAGAAAAGG GAGCCATTT AACAGACACA TGTGTCAAA GAAATGACTT GTCGATTAT TCTGGCTAAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTG CTTAAGAAA ATGAACCTAT GCAAATAGAC ATCCACAGCG TCGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	P	Homo sapiens
681	194907	G Protein- Coupled Receptor 14273	LD22826	<p>TCCGGACTAG TTCTAGACCG CTGCGGGCCG CCAGGCGCCG GGAATGTCCC CTGAATGCGC GCGGGCAGCG GCGACGCGC CTTTGGCAG CCTGGAGCAA GCCAACCGCA CCCGCTTCC CTCTCTCC GACGTCAAG GCGACCAACG GCTGTGCTG CCGCGGTGG AGACAACCGT GCTGTGCTC ATCTTTGCAG TGTGCTGCT GGGCAACGTG TCGCCCTGG TGTGTGTCG CCGCCGACG CGCCGCGCG CAGTGCCTG CCGGTACTC AACCTCTCT GCGCGGACCT GCTCTCATC AGCGTATCC CTCTGTGCT GCGGTGCGC TGGACTGAGG CCTCCCTGCT GGGCCCCGT GCGTCCACC TGCTCTCTA CGTGATGACC CTGAGCGGA GCGTCACCAT CCTACGCTG CCGCGGTCA GCCTGGAGGG CATGTGRC ATCRGCACC TGGAGCGCG CCGCGGGT CCTCCGCGG GGCGCGGGC AGTGCTGCT GCSTCATCT GGGCTATC GCGGTGCGC GCTCTGCTC TGTGCTCT CTTCGAGTC GTCCCGCAAC GGCTCCCGG CGCCGACCA GAAATTCGA TTTCACACT GATTGGCCC AGCATTCCTC GAGATCTC GTGGGATGC TCTTTGTTA CTTTGAACCT CTGTGTGCA GGACTGGTCA TTGTATCAG TTACTCCAA ATTTACAGA TCACAAAGC ATCAAGGAAG AGGTCACCG TAAGCTGGC CTACTCGGAG ACCACCAGA TCCGCTGTC CCAGCAGGAC TTCCGGCTCT TCCGCACCCT CTTCCTCTC ATGGTCTCT CTTCATCAT GTGGAGCCC ATCATCATCA CCATCTCTC CATCTGATC CAGAACTCA AGCAAGACCT GGTATCTGG CCGTCCCTC TCTTCGGGT GGTCCCTTC ACATTTGTA ATTCAGCCC AAAOCCATC CTCTACAACA TGACACTGTG CAGGAATGAG TGAAGAAA TTTTGTCTG CTTCTGGTC CCAGAAAAGG GAGCCATTT AACAGACACA TGTGTCAAA GAAATGACTT GTCGATTAT TCTGGCTAAT TTCTTTATA GCCGAGTTT TCACACCTGG CGAGCTGTG CATGCTTTA AACAGAGTTC ATTCCAGTA CCCTCCATCA GTGCACCTG CTTAAGAAA ATGAACCTAT GCAAATAGAC ATCCACAGCG TCGTAAAT AAGGGGTGAT CACCAAGTTT CATAATATT TCCCTTTATA AAAGGATTG TTGGCCAGGT GCAGTGGTTC ATGCTGTAA</p>	A	Homo sapiens

682	194907	G Protein- Coupled Receptor 14273	LR116	P	Homo sapiens	TCCAGCAGT TTGGGTGAG GTGGGTGGAT CACCTGAGGT CAGGAGTTGG AGACCAACCT GACCAACATG GTGAGACCCC CGTCTCTACT AAAAATAAAA AAAAAATAA GCTGGGAGTG GTGGTGGCA CCTGTAATCC TAGCTACTTG GGAGGCTCAA CCACGAGAT CTCTGAACC TGGGAGGCAG AGGTGCAAT GAGCGAGAT CGTGCCATTG CACTCCAACC AGGCAACAA GAGTGAACT CCATCTTAAA AAAAAAAA AAAGATTGTG TATGGGTCC TTITAAATGT GAACTTTTIT AGTGTTTG TATATGATCA AATTAATAA ATATTATTT ATGACTGTC AGCAAAAAA AAAAAAAA AGGCGG MSPECARAAG DAPLRLEQA NRTFRPFSD VKGDHRL VLA AVETTVLVI FAVSLGNVC ALVLVARRR RGATACLVLN LFCADLLFIS AIPLVLA VRW TEAWLLGPVA CHLLFYVMTL SGSVTILTL AVSLDRMVCV VMLQRGVRCP GRRARAVLLA LIWYSAVAA LPLCVFFRVV PQLPGADQE ISICTLIWPT IPGEISWDVS FVTNLNFPV LVIYSYSKI LQTTKASRR LTVSLAYSRS HQIRVSQQDF RLFRITLLM VSFIMWSP I IDTILLIQ NFKQDL VIWP SLPPWVAPT FANSALNPIL YNMTCRNEW KKIFCCTWFP EKGAITDTS VKRNDLSIS G ITYSAISDEL RDKVRFPALL RTTPSADHHV EAMVQLMLHF RWNWIVLVS SDTYGRDNGQ LLGERVARRD ICIAFQETLP TLQPNQNMST EERQRLVTIV DKLQQSTARV VVVFSPDLTL YHFFNEVLQ NFTGAVWIAS ESWAIDPVLH NLTELHGLGT FLGITIOSVP IPGFSEFREW GPQAGPPPLS RTSQSYTCNQ ECDNCLNATL SFNTILRLSG ERVVSYSVA VYVAHALHS LLGCDKSTCT KRVVYPWQLL EEIWKVNFTL LDHQIFFDPQ GDVALHLEIV QWQWDRSQNP FQSVASYPL QRQLKNIKTS LHTVNNTPM SMCSCRQCSG QKKKPVGIHV CCFECIDCLP GTFLNHTIECP NNEWSYQSET SCFKRQL VFL EWHEAPTIAV ALLAALGFLS TLAILVIFWR HFQTPIVRSA GGPMTFLMLT LLLVAYMVVP VYVGPVKVST CLCRQALFPL CFTICISCIA VRSFQIVCAF KMASRFPRAV SYWVRYQGPY VSMAFITVLK MVIVVIGMLA RPQSHPRITDP DDPKITIVSC NPNYRNSLLF NTSLDL LLSV VGFSFAYMGK ELPTNYNEAK FITLSMTFYF TSSVSLCTFM SAYSGVLVTI VDLLVTVLNL LAISLGYFGP KCYMILFYPE RNTPAYFNSM IQGYTMRRD
683	194908	G Protein-coupled Receptor Gpcrb4	LR117	P	Homo sapiens	atgagcagca atfcatccct gctggiggct gggcagctgt gctacgcgaa cgggaatggg tccigtgtga aaatccctct ctgcggga tccgggga tictgacat agtgttggc ttggggctgt gtttggaaac ctctgggtga tgaattcaat ctccatttc aagcagctgc acitcccgac caattttc gtgctctc tggcctcgc tgaattctt ggggtgtgtga ctgtgtgoc cttcagcatg gtcaggaagg tggagagctg ctggaattt gggagagagt ttgtacttt ccacacctgc tggaggtgg cattttgtta ctctctct ttcaattgt gcttctct cctgcagcagg tacattggcg ttactgacc cctgtctat cctacaaagt taccgtatc tgtgtcagga atttgcaltca gctgtctctg gctctgtccc ctcattgtaca gctgtgtgtgt gttctacaca ggtgtgtgt acgtgtggct ggaggaatta tctgtatccc taacattgt agggaggtgt cagacgtgtg taatcaaaa cgggtgtgt acagattttc latctctt talacciac ttattatga taattctgt tggtaacata ttctgtgg ctgagcagca ggcgaagcgc taaacccctg ggggtgtcag gacagaalca tctcagaga gttacaagc cagagtgcc aggaagagaga gaaagcagc taaacccctg ggggtgtcag tggtagcatt tatgattca tggtagcat atagcatga ttcaattt gttgtctta tgggtcttat aacccctgct tgaatttatg agatttctgt ttgtgtgtct tattataact cagccalga tctttgatt tatgcttat ttaccocatg gtttaggaaa gcaataaag
684	194957	Trace Amine Receptor 4 (TA4)	AF380192	A	Homo sapiens	

685	194957	Trace Amine Receptor 4 (TA4)	AAK71243.1	<p>ttatigtaac tggicagaggti ttaagaaca gttacgaac caigaattig ttitctgaac atataaa MSSNSLLVA VQLCYANVNG SCVKPFSPG SRVLYIVFG FGAVLAVFGN LLVMISILHF KQLHSPTNFL VASLACADFL VGVTVMPFSM VRTVESCWYF GRSFCTFHTC CDVAFCYSSL FHLCFTSIDR YIAVTDPLVY PTKFTVSVSG ICISVSWILP LMYSGAVFYT GVVYDDGLEEL SDALNCIGGC QTVVNQNWVL TDFLSFFIPT FIMILYGNL FLVARRQAKK IENTGSKTES SSESYPKARVA RRERKAAKTL GVTVAFMIS WLPYSDSLI DAFMGFITPA CIYEICCWCA YNSAMNPLI YALFYPWFRK AIKVITGVQV LKNSSATMNL FSEHI atgaccagca attutoca accctgtgtg cagctgtgt atgaggatgt gaaagatct tgaatgaac ctocctatc tccitgggtcc cgggtaatc tgaacagggc gtttagctt gggcttttgc tggctgtat tggaaatct tgaataaga ctctgtct tcaitttaag cagctgtcaat cccaacca ttttcaat ggcctcttgc cctgtctga ctcttgga ggtgtgactg tgaigtctt cagcatggc aggacgggtgg agagctgtctg gtaitttga gccaaattt gactctca cagtgtctg tatgtggcat ttgttact ttgtctc cactgtgtc tcatgtcat cgacaggatc atgtgttga ctgaatccct ggtatccct accaagtca cgtgtctgt gtcgggaatt tgcacagcgg tgcctggat tctgtctc acgtacagcg gtcgtgt ctacacaggt gtaatgalt atgggtctgga ggaattagta agtctctca acgtgtgag tggctgtcaa atattgaa gtaacagcgg ggtgtgata gatttctgt tattctcat acctaccct gttatgataa tttttacag taagtattt ctatagta aacaacaagc tataaattt gaaactatca gtagcaaggt agaaalcc tcaagaggt ataaatcag agtggccaag agagaagga aagcagctaa aacctgggg gtaacggatc tagcaattgt tatttalg ttacogata cagtgtat ataatgat gactttalg gctcttgac cctgtctat atctatgaa ttgtgtgt gagtctat taactcag ccaagatcc ttgattat gctatatt atctgtgt taggaagacc ataaacta tttaagg agatgtta aggtgtgt cacaacat tagttatt tagaataa MTSNFSQPVV QLCYEDVNGS CIETPYSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMLFMSV RTVESCWYFG AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVYTDPLVYA TKFTVSVSGI CTSVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKRVAK RERKAAKTLG VTVLAFVISW LPTVVDILID AFMGFLTPAY IYEICCWSA YNSAMNPLY ALFYPWFRKA IKLLSGDVL KASSSTISLF LE tgcattgtct tcttctctt ccatggatga ccagtcctag tcaagaggtg gtaacaaca cctcttng tcttgaatt cctccaactg aaagaaaatt tcaagaccag gtagatga tcatgggtc caaagccctg gccagatgag tgggggtgt tgaatctaa tgtattccc atgtcagcac agaatctgtg tggcagatga gtagatcag gcttcaagat caacaagaac tggattcaa actggattg aggaacccca ccttttgtaa gtagattat atctgtgagc ctctttct ctcttcta aatgaaggaca gtaaatcca tacggcaggg tgggtggggag aatcagat gatacagctg gtagatcat ctgttttg ttccaggggg caccagacia gagtttttga gcatgtatcc aaccttcca gcttggga caaaactgac accaataac ggaactgtgag agactctgt ctacaatcag acctgtgt tcaaggtgt gactgtgalt atttccct tcatatctc aacctggccg cagcaactt ccttctct ggctctggg ctaccgcat cgcaaggagc ctgtctcat ctatctctc aacctggccg cagcaactt ccttctct agcttccaga ttatagttt gcaatagc ctatcaata tcaagcatct catccgataa atctctgtt ctgtatgac ctctccat tttacaaggcc tgaatagct gtagcgcaltc agcaacagagc gctgtctgtc tgtctgtgg ccatctgtt acctgtgccc ccggcccaaca cactgtgtc ggtgtgtgt tgtctgtct cctgtgtctt tgaatagct gtaggtgtg tctgtgtgt cctgtgtgt cagtgtgt tgaacagta gatttcalcc cagtgtgt gctgtgtt ttatgtgt tctgtgt ttccagctgt gctgtgt tcaagatct ctgtgtgt cgtgtgtg gctgtgtg gctgtgtg gctgtgtg gctgtgtg</p>	P	Homo sapiens
686	194958	Trace Amine Receptor 5 (TA5)	AF380193	<p>atgaccagca attutoca accctgtgtg cagctgtgt atgaggatgt gaaagatct tgaatgaac ctocctatc tccitgggtcc cgggtaatc tgaacagggc gtttagctt gggcttttgc tggctgtat tggaaatct tgaataaga ctctgtct tcaitttaag cagctgtcaat cccaacca ttttcaat ggcctcttgc cctgtctga ctcttgga ggtgtgactg tgaigtctt cagcatggc aggacgggtgg agagctgtctg gtaitttga gccaaattt gactctca cagtgtctg tatgtggcat ttgttact ttgtctc cactgtgtc tcatgtcat cgacaggatc atgtgttga ctgaatccct ggtatccct accaagtca cgtgtctgt gtcgggaatt tgcacagcgg tgcctggat tctgtctc acgtacagcg gtcgtgt ctacacaggt gtaatgalt atgggtctgga ggaattagta agtctctca acgtgtgag tggctgtcaa atattgaa gtaacagcgg ggtgtgata gatttctgt tattctcat acctaccct gttatgataa tttttacag taagtattt ctatagta aacaacaagc tataaattt gaaactatca gtagcaaggt agaaalcc tcaagaggt ataaatcag agtggccaag agagaagga aagcagctaa aacctgggg gtaacggatc tagcaattgt tatttalg ttacogata cagtgtat ataatgat gactttalg gctcttgac cctgtctat atctatgaa ttgtgtgt gagtctat taactcag ccaagatcc ttgattat gctatatt atctgtgt taggaagacc ataaacta tttaagg agatgtta aggtgtgt cacaacat tagttatt tagaataa MTSNFSQPVV QLCYEDVNGS CIETPYSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMLFMSV RTVESCWYFG AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVYTDPLVYA TKFTVSVSGI CTSVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKRVAK RERKAAKTLG VTVLAFVISW LPTVVDILID AFMGFLTPAY IYEICCWSA YNSAMNPLY ALFYPWFRKA IKLLSGDVL KASSSTISLF LE tgcattgtct tcttctctt ccatggatga ccagtcctag tcaagaggtg gtaacaaca cctcttng tcttgaatt cctccaactg aaagaaaatt tcaagaccag gtagatga tcatgggtc caaagccctg gccagatgag tgggggtgt tgaatctaa tgtattccc atgtcagcac agaatctgtg tggcagatga gtagatcag gcttcaagat caacaagaac tggattcaa actggattg aggaacccca ccttttgtaa gtagattat atctgtgagc ctctttct ctcttcta aatgaaggaca gtaaatcca tacggcaggg tgggtggggag aatcagat gatacagctg gtagatcat ctgttttg ttccaggggg caccagacia gagtttttga gcatgtatcc aaccttcca gcttggga caaaactgac accaataac ggaactgtgag agactctgt ctacaatcag acctgtgt tcaaggtgt gactgtgalt atttccct tcatatctc aacctggccg cagcaactt ccttctct ggctctggg ctaccgcat cgcaaggagc ctgtctcat ctatctctc aacctggccg cagcaactt ccttctct agcttccaga ttatagttt gcaatagc ctatcaata tcaagcatct catccgataa atctctgtt ctgtatgac ctctccat tttacaaggcc tgaatagct gtagcgcaltc agcaacagagc gctgtctgtc tgtctgtgg ccatctgtt acctgtgccc ccggcccaaca cactgtgtc ggtgtgtgt tgtctgtct cctgtgtctt tgaatagct gtaggtgtg tctgtgtgt cctgtgtgt cagtgtgt tgaacagta gatttcalcc cagtgtgt gctgtgtt ttatgtgt tctgtgt ttccagctgt gctgtgt tcaagatct ctgtgtgt cgtgtgtg gctgtgtg gctgtgtg gctgtgtg gctgtgtg</p>	A	Homo sapiens
687	194958	Trace Amine Receptor 5 (TA5)	AAK71244.1	<p>atgaccagca attutoca accctgtgtg cagctgtgt atgaggatgt gaaagatct tgaatgaac ctocctatc tccitgggtcc cgggtaatc tgaacagggc gtttagctt gggcttttgc tggctgtat tggaaatct tgaataaga ctctgtct tcaitttaag cagctgtcaat cccaacca ttttcaat ggcctcttgc cctgtctga ctcttgga ggtgtgactg tgaigtctt cagcatggc aggacgggtgg agagctgtctg gtaitttga gccaaattt gactctca cagtgtctg tatgtggcat ttgttact ttgtctc cactgtgtc tcatgtcat cgacaggatc atgtgttga ctgaatccct ggtatccct accaagtca cgtgtctgt gtcgggaatt tgcacagcgg tgcctggat tctgtctc acgtacagcg gtcgtgt ctacacaggt gtaatgalt atgggtctgga ggaattagta agtctctca acgtgtgag tggctgtcaa atattgaa gtaacagcgg ggtgtgata gatttctgt tattctcat acctaccct gttatgataa tttttacag taagtattt ctatagta aacaacaagc tataaattt gaaactatca gtagcaaggt agaaalcc tcaagaggt ataaatcag agtggccaag agagaagga aagcagctaa aacctgggg gtaacggatc tagcaattgt tatttalg ttacogata cagtgtat ataatgat gactttalg gctcttgac cctgtctat atctatgaa ttgtgtgt gagtctat taactcag ccaagatcc ttgattat gctatatt atctgtgt taggaagacc ataaacta tttaagg agatgtta aggtgtgt cacaacat tagttatt tagaataa MTSNFSQPVV QLCYEDVNGS CIETPYSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMLFMSV RTVESCWYFG AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVYTDPLVYA TKFTVSVSGI CTSVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKRVAK RERKAAKTLG VTVLAFVISW LPTVVDILID AFMGFLTPAY IYEICCWSA YNSAMNPLY ALFYPWFRKA IKLLSGDVL KASSSTISLF LE tgcattgtct tcttctctt ccatggatga ccagtcctag tcaagaggtg gtaacaaca cctcttng tcttgaatt cctccaactg aaagaaaatt tcaagaccag gtagatga tcatgggtc caaagccctg gccagatgag tgggggtgt tgaatctaa tgtattccc atgtcagcac agaatctgtg tggcagatga gtagatcag gcttcaagat caacaagaac tggattcaa actggattg aggaacccca ccttttgtaa gtagattat atctgtgagc ctctttct ctcttcta aatgaaggaca gtaaatcca tacggcaggg tgggtggggag aatcagat gatacagctg gtagatcat ctgttttg ttccaggggg caccagacia gagtttttga gcatgtatcc aaccttcca gcttggga caaaactgac accaataac ggaactgtgag agactctgt ctacaatcag acctgtgt tcaaggtgt gactgtgalt atttccct tcatatctc aacctggccg cagcaactt ccttctct ggctctggg ctaccgcat cgcaaggagc ctgtctcat ctatctctc aacctggccg cagcaactt ccttctct agcttccaga ttatagttt gcaatagc ctatcaata tcaagcatct catccgataa atctctgtt ctgtatgac ctctccat tttacaaggcc tgaatagct gtagcgcaltc agcaacagagc gctgtctgtc tgtctgtgg ccatctgtt acctgtgccc ccggcccaaca cactgtgtc ggtgtgtgt tgtctgtct cctgtgtctt tgaatagct gtaggtgtg tctgtgtgt cctgtgtgt cagtgtgt tgaacagta gatttcalcc cagtgtgt gctgtgtt ttatgtgt tctgtgt ttccagctgt gctgtgt tcaagatct ctgtgtgt cgtgtgtg gctgtgtg gctgtgtg gctgtgtg gctgtgtg</p>	P	Homo sapiens
688	194989	MrgX4 G Protein-Coupled Receptor	AY042216	<p>atgaccagca attutoca accctgtgtg cagctgtgt atgaggatgt gaaagatct tgaatgaac ctocctatc tccitgggtcc cgggtaatc tgaacagggc gtttagctt gggcttttgc tggctgtat tggaaatct tgaataaga ctctgtct tcaitttaag cagctgtcaat cccaacca ttttcaat ggcctcttgc cctgtctga ctcttgga ggtgtgactg tgaigtctt cagcatggc aggacgggtgg agagctgtctg gtaitttga gccaaattt gactctca cagtgtctg tatgtggcat ttgttact ttgtctc cactgtgtc tcatgtcat cgacaggatc atgtgttga ctgaatccct ggtatccct accaagtca cgtgtctgt gtcgggaatt tgcacagcgg tgcctggat tctgtctc acgtacagcg gtcgtgt ctacacaggt gtaatgalt atgggtctgga ggaattagta agtctctca acgtgtgag tggctgtcaa atattgaa gtaacagcgg ggtgtgata gatttctgt tattctcat acctaccct gttatgataa tttttacag taagtattt ctatagta aacaacaagc tataaattt gaaactatca gtagcaaggt agaaalcc tcaagaggt ataaatcag agtggccaag agagaagga aagcagctaa aacctgggg gtaacggatc tagcaattgt tatttalg ttacogata cagtgtat ataatgat gactttalg gctcttgac cctgtctat atctatgaa ttgtgtgt gagtctat taactcag ccaagatcc ttgattat gctatatt atctgtgt taggaagacc ataaacta tttaagg agatgtta aggtgtgt cacaacat tagttatt tagaataa MTSNFSQPVV QLCYEDVNGS CIETPYSPGS RVILYTAFSF GSLLAVFGNL LVMTSVLHFK QLHSPTNFLI ASLACADFLV GVTVMLFMSV RTVESCWYFG AKFCTLHSCC DVAFCYSSVL HLCFICIDRY IVYTDPLVYA TKFTVSVSGI CTSVSWILPL TYSGAVFYTG VNDDGLEELV SALNCVGGCQ IIVSQGWVLI DFLFFIPTL VMILYSKIF LIAKQQAIKI ETTSSKVESS SESYKRVAK RERKAAKTLG VTVLAFVISW LPTVVDILID AFMGFLTPAY IYEICCWSA YNSAMNPLY ALFYPWFRKA IKLLSGDVL KASSSTISLF LE tgcattgtct tcttctctt ccatggatga ccagtcctag tcaagaggtg gtaacaaca cctcttng tcttgaatt cctccaactg aaagaaaatt tcaagaccag gtagatga tcatgggtc caaagccctg gccagatgag tgggggtgt tgaatctaa tgtattccc atgtcagcac agaatctgtg tggcagatga gtagatcag gcttcaagat caacaagaac tggattcaa actggattg aggaacccca ccttttgtaa gtagattat atctgtgagc ctctttct ctcttcta aatgaaggaca gtaaatcca tacggcaggg tgggtggggag aatcagat gatacagctg gtagatcat ctgttttg ttccaggggg caccagacia gagtttttga gcatgtatcc aaccttcca gcttggga caaaactgac accaataac ggaactgtgag agactctgt ctacaatcag acctgtgt tcaaggtgt gactgtgalt atttccct tcatatctc aacctggccg cagcaactt ccttctct ggctctggg ctaccgcat cgcaaggagc ctgtctcat ctatctctc aacctggccg cagcaactt ccttctct agcttccaga ttatagttt gcaatagc ctatcaata tcaagcatct catccgataa atctctgtt ctgtatgac ctctccat tttacaaggcc tgaatagct gtagcgcaltc agcaacagagc gctgtctgtc tgtctgtgg ccatctgtt acctgtgccc ccggcccaaca cactgtgtc ggtgtgtgt tgtctgtct cctgtgtctt tgaatagct gtaggtgtg tctgtgtgt cctgtgtgt cagtgtgt tgaacagta gatttcalcc cagtgtgt gctgtgtt ttatgtgt tctgtgt ttccagctgt gctgtgt tcaagatct ctgtgtgt cgtgtgtg gctgtgtg gctgtgtg gctgtgtg gctgtgtg</p>	A	Homo sapiens

689	194989	MrgX4 G Protein-Coupled Receptor	AAK91807.1	<p>tcacagtgtc ggtcttcctc ctctgcggcc tgccttcggc catctcgggg gccctaattt acagagatgca cctgaatttg gaagcttat attgtcalgt ttaatctggt tgcaltgccc tgcctctct aaacagtagt gccaacocca tcaattact cctcgtgggc tcccttaggc agcgtaaaaa taggcaagaac ctgaagcttgg tctccagag ggcctctgcag gacaagccttg aggttgagaa aggtgaagg cagcttcccg aggaagcctt ggaagcttcg ggaagcagat tggggccatg agggagagacc tctgcctctg cagtcagacg ggactttgag agcaacacig tcttgcacc ctigacaatt acatcggtt tcttagcgt tgccttcag aatgctca gttgaact aaggttca aataaattgt tatctaact gacagtgc gtttacc acc agtgaaagca tagctgac agtaacaagt ttgg MDPTVPVFGT KLTPINGREE TPCYNQTLST TLTCTIISLV GLTGNAVVLW P Homo sapiens</p> <p>LLGYRMRRNA VSIYILNLAA ADFLFSQI IRSPLRLINI SHLRKILVS VMTFPYFTGL SMLSAISTER CLSVLWPIWY RCRPHTLSA VVCVLLWGLS LLFSMLEWRF CDFLFGADS SWCETSDFIP VAWLJFLCVV LCVSSLVLLV RILCGSRKMP LTRLYVTILL TVLVFLCGL PFGILGALIY RMHLNLEVLV CHVYLVCMSL SSLNSSANPI IYFFVGSFRQ RQNRQNLKLV LQRALQDKPE VDKGEGQLPE ESLESGSRL GP</p>
690	195015	G Protein- Coupled Receptor GPR82	AF411111	<p>atgaacaca atacaacatg tattcaaca tctatgatc ctccatgagc tttaaccaac attatacc tctttgtat tgttggtgt tttggaaaca cttctctca atggatatt ttacaacaaa taggtzaaaa aacatcaacg cacatcac tgcacacact tggactgca aacctacttg tggcagtcg calgcccitc atgagatct atttctgaa aggttccaa tgggaatac aatctgctca algcagagtg gtcaatttc tgggaactct atccatgcat gcaagatgt tigtcagct cttaattta agtttgatg ccaataagccg ctatgctacc ttaatgcaaa aggaattcttc gcaagagact acttcatgct algagaaaaa attttatggc catttactga aaaaatttcg ccagcccaac tttctagaa aactatgcat ttacataagg ggaagtgtac tgggcataat cattccagti accgtatact actcagtgic tcaatggaac gaaaggagaag agagocctatg ctacaatcgg cagatggaac tagggccat gatctctcag atggcaggtc tcaatggaac cacatttati ggaatttct tttagtagt actaacatca tactactct ttgtaagca tctgagaaaa atagaagaact gtacgtccat taaggagaaa gatttgacti acagtctgt gaaaagacat ctttggica tccagatct actaaatgt tgcctctc ctatagat ttttaaacce attttatg ttctacaca aagagataac tgtcagcaat tgaattatt aatagaacaa aaaaacaltc tcaactgct tgcctcgcc agaaatgagca cagacccat tatattct ttattagaca aaacaticaa gaagacacta tataatctct ttacaagtc taattacga calatgcaat catatgttg a</p> <p>MNNNTTCIQP SMISSMALPI IYLLCIVGV FGNTLSQWIF LTKIGKKTST HIYLSHLVTA P Homo sapiens</p> <p>NLLVCSAMPF MSYFLKGFQ WEYQSAQCRV VNFLGTL SMH ASMFVSLIL SWAISRYAT LMQKDSSET TSCYEKIFYG HLLKKFRQPN FARKLCYIW GVVLGIIIPV TVYYSVIEAT EGEESLCYNR QMELGAMISQ IAGLIGTTIFI GFSFLVVLTS YYSFVSHLRK IRTCTSIMEK DLTYSSVKRH LLVIQILLIV CFLPYSIFKP IFYVVLHQRDN CQQLNYLIET KNILTCLASA RSSTDPIFL LLDKTFKKTL YNLFTKSNSA HMQSYG</p>
691	195015	G Protein- Coupled Receptor GPR82	AAL26482	

SEQ ID NO:	LSID	Gene	Source ID	Sequence	Code	Species
1	127	5-HT1A Receptor	NM_000524	atggatgtgc tcagccctgg tcagggcaac aacaccacat caccaccggc tccctttgag accggcggca acactactgg tatctccgac gtgacogtca gctaccaagt gatcacctct ctgtctgg gcacgtctcat ctctcgcg gtctgggca atcggtgctg ggtggctgcc atcgcttgg agcgctccct gcagaaactg gccaatatc ttattggctc ttggcggtc accgacctca tgggtgtcgt gtgtgtgctg ccctgggccc cctgtatca ggtgtctaac aagtggacac tgggccagggt aacctggac gtgttcacgt cctcgacgt cgtgtctgc acctcatcca tcttgacact gtgcgccatc gcgctggaca ggtactgggc catcacggac cccctgact acgtgaacaa gaggaagccc cgccgcgctg cgctcatctc gctcacttgg cttattggct tctctatctc tatccgccc atcttgggtt ggcgacccc ggaagacgcg tcggaccccc acgcatgcac cattagcaag gatcatggtt acatatata tccacctt ggagctttct acatccccgt gctgctcatg ctggttctct atggcgcat attccgagct gcgcgcttcc gcatccgcaa gacggtcaaa aaggtggaga agaccggagc ggacaccgcg catggagcat ctccgcccc gcagcccaag aagagtgtga atggagagtc ggggagcagg aactggaggc tggcggtgga gagcaaggct gggggtgctc tgtgcgcaa tggcggtg aggcaagggt acgatggcg cgccctggag gtgctcaggt tgcaccaggt gggcaactcc aaagagcact tgcctctgcc cagcgaggct ggtctaccc ctgtgccc cgcctcttc gagaggaaaa atgagcgcaa cgccgaggcg aagcgcaaga tggccctggc ccgagagagg aagacagtga agacgctggg catcatcatg ggcaccttca tctctgctg cgtgccctc ttcatcgtgg ctcttgttct gccctctgc gagagcagct gccacatgc caccctgtg ggcgccataa tcaattggct gggctactcc aactctctgc ttaacccgt catttaogca tacttcaaca aggactttca aaacgggtt aagaagatca ttaagtgtaa ctctgcgcg cagtga	A	Homo sapiens
2	127	5-HT1A Receptor	NP_000515.1	MDVLSPGQGN NTTSPAPFE TGGNTGTGSD VTVSYQVITS LLLGTLI FCA VLGNACVVAA IALERSLQNV ANYLIGSLAV TDLNVSVLVL PMALYQVLN KWTLGQVTC LFIALDVLCC TSSILHLCAI ALDRYWAITD PIDYVNRTP RPRALISLTW LIGFLISIPP ILGWRTPEDR SDPDACTISK DHGYTIYSTF GAFYIPLLIM LVLYGRIFRA ARFRIRKTVK KVEKTGADTR HGASPAPOPK KSVNGESGSR NWRLGVESKA GGALCANGAV RQDDGGALE VIEVHRVGN KEHLPLPSEA GPTPCAPASF ERKNERNAEA KRKMALARER KTVKTLGIIM GTFILCWLPF FIVALVL PFC ESSCHMPTLL GAIINWLGYS NSLNPVIYA YFNKDFQNAF KKIICKNFCR Q	P	Homo sapiens
3	128	5-HT1B Receptor	NM_000863	atggagggaac cgggtgtctca gtgcgtcca cgcgcgcgcg cgggctccga gacctgggtt cctcaagcca acttatctc tgcctccctc caaaactgca gcgccaagga ctacatttac caggactcca tctccctacc ctggaaagta ctgctggta tgcattggc gctcatcacc ttggccacca cgtctccaa tgccttctgt attgccacag tgaaccggac ccggaactg cacaccccg ctaactacct gatgcctct ctggcggtca cgcacctgct tgtgtccatc ctggtgatgc ccatcagcac catgtacact gtcaccgccc gctggacact gggccagggtg gtctgtgact tctggctgtc tgcggacatc acttgggtga ctgcctccat cctgacctc tgtgtcatcg ccctgggaccg ctactgggccc atcacggagc ccgtggagta ctcagctaaa aggactcca agagggcgcg ggtcatgac gcgctgggtg ggtctcttc catctctatc	A	Homo sapiens

4	128	5-HT1B Receptor	NP_000854.1	<p>tcgtgcgc ccttctctg gcgtcaggct aaggcgaag aggaggtgc ggaatgcgtg gtgaacacg accacatct ctacacggt tactcacgg tgggtgcttt ctactcccc acctgtctc teatgcctt ctatggcgc atctacgtag aagcccgctc ccgattttg aaacagacg caacacggc cggcaagcg ttgacccgag ccagctgat aaccgactcc cccgggtcca cgtcctcgg cactctatt aactcgagg ttcccgacgt gccagcgaa tcgggatctc ctgtgtatg gaaccaagt aaagtgcgag tctccgacgc cctgctggaa aagaagaaac tcatggcgc tagggagcg aagccacca agccctagg gatcatttg ggagccttta ttgtgtgtg gctacccctt cctatgtat gctatatcgc aaagatgcct gctggttcca cctagccatc ttgacttct teacatggt gggctatctc aactccctca tcaccccat aatctatac atgtccaatg aggactttta aacagcattc cataaactga tacgttttaa gtgcacaagt tga</p> <p>LATILSNAFV IATVYTRKL HTPANYLIAS LAVTDLLVSI LVMPISTMYT VTGRWTLGQV VCDFWLSDDI TCCTASILHL CVIALDRYWA ITDAVEYSK RPKRAAVMI ALVWVFSISI SLPPFFWRQA KABEEVSECV VNTDHILYTV YSTVGAFYFP TLLILALYGR IYVEARSRII KQPNRTGKR LTRAQLITDS PGSTSSVTSI NSRPVDPVSE SGSPVYVQV KVRVSDALLE KKKLMAARER KATKTLGIIL GAFIVCWLPF FIISLVMPIC KDACWFHLAI FDFFTWLGYL NSLINPIYT MSNEFKQAF HKLIRFKCTS</p>	Homo sapiens
5	129	5-HT1D Receptor	NM_000864	<p>agccaaatgt gtggaggtct gtgggaagag agagccacct agcatgtccc cactgaacca A gtcagcagaa ggccttcccc agaggccctc caacagatcc ctgaatgcca cagaaacctc agaggttgg gatcccgga cctccaggc gctcaagatc tccctggcg tggctcttc cgtcatcaca ctggccacag tctctccaa tgcctttgta ctaccacca tcttactcac caggaagctc cacaccctg ccaactacct gattggctcc ctggccacca ccgacctctt ggtttccatc ttggtaatgc ccatcagcat cgcctatacc atcaccaca cctggaaatt tgcccacaa ttgtgtgaca tctggcigtc ctctgacatc acgtgctgca cagcctccat cctgcatctc tgtgtcattg ctctggacag gtactgggca atcacagatg cctgggaata cagtaaacgc aggacggctg gccacggcg caccatgac gccattgtct gggccatctc catctgcac tccatcccc cgtctctctg gggcaggcc aaggcccagg aggagatgtc ggactgtctg gtgaacacct ctcatatctc ctacaccatc tactccacct gtggggcctt ctacattccc tcgggtgtgc tcatcatctc atatggccgg atctaccggg ctgcccggaa ccgcctcctg aatccacct cactctatgg gaagcgttc accacggccc acctcatcac aggtctctgc ggtctctgc tctgctcgt ccactccagc ctccatgagg ggcactcgca ctcgggtggc tcccctctc ttttcaacca cgtgaaaatc aagcttgctg acagtgcctt ggaacgcaag aggatttctg ctgctcgaga aaggaagacc actaaaatcc tgggcatcat tctgggggccc ttatcatct ctggtgtgccc ctctctctg gtgtctctgg tctccccat ctgcccgggac tctgtctgga tccaccggc gctcttgac tcttccacct ggtaggcta tttaactcc ctcatcaatc caataatcta cactgtgttt aatgaagagt ttcggcaagc ttttcagaaa atgtccctt tccggaaggc ctcttagtct tattcgatga ggtaaagaaa P MSPLNQAEG LPQEASNRSL NATETSEAWD PRTQALKIS LAVLSVITL ATVLSNAFVL TTILLTRKLH TPANYLIGSL ATTDLLVSIL VMPISAIYTI THTWFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA I TDALEYSKRR TAGHAATMIA IVWAISICIS IPPLFWRQAK</p>	Homo sapiens
6	129	5-HT1D Receptor	NP_000855.1	<p>ttttcagaaa atgtccctt tccggaaggc ctcttagtct tattcgatga ggtaaagaaa P MSPLNQAEG LPQEASNRSL NATETSEAWD PRTQALKIS LAVLSVITL ATVLSNAFVL TTILLTRKLH TPANYLIGSL ATTDLLVSIL VMPISAIYTI THTWFGQIL CDIWLSSDIT CCTASILHLC VIALDRYWA I TDALEYSKRR TAGHAATMIA IVWAISICIS IPPLFWRQAK</p>	Homo sapiens

7	130	5-HT1E Receptor	NM_000865	<p> AQEEMSDCLV NTSQISYTIY STCGAFYIPS VLLIILYGR IYRAARNRIILN PPSLYGKRFT TAHLITGSAG SSLCSLNSSL HEGHSHSAGS PLFFNVHKIK LADSALERKR ISAARERKAT KILGIILGAF IICWLPFFV SLVLPICRDS CWIHPALFDF FTWILGYLNSL INPIIYTFVN EEFROAFQKI VPRKAS </p> <p> atcgaatgtt gagagaagca gtgctctgat ccagctcagg agaaaaagga gcgggttcgcg A agtgagactt ctggagccag ctggacgtgc cggtttgccc agtgcggcgc ggctgcaagc accgtccaca agagtctcag tcgcccaggc cagcacagtc tcacctcatt gaaacctccg cctcccgggt tcgcgggttc tcgcctcag cttcctagta cttgggattg caggcaactca ccaccatgcc cggctaattt ttggaattt tagtggagac gggatttcac catgttggcc atgtgtgtct tgaaccccg acctgggatg attcgccgcg ctcggcctcc caaagtgtg gaattacagg gaaacctca ctcaagaagaa atgtgtggc cttcccttt accaacagaa aatggaacac aagagaccac atagtgaac aaattatagc ctccttaca gtgagaaacc ttcgaggcta catagttttc agcaaaagga aaataaccaa cagcttctcc acagtgtaga ctgaaacaag gaaacatga acatcacaaa ctgtaccaca gaggccagca tggctataag acccaagacc atcaactgaga agatgctcat ttgcatgact ctggtgttca tcaccacct caccacgttg ctgaacttgg ctgtgatcat ggctattggc accaccaaga agctccacca gcttgcacaac tacctaattct gttctctggc cgtgacggac ctcctgttgg cagtgtcgt catgccccg agcatcatct acatgtcat ggtcgtctg aagcttgggt acttctctg tgaggtgtgg ctgagtgtg acatgaacct ctgcacctgc tccatctcc acctctgtg cattgccctg gacaggctact gggccatcac caatgctatt gaatacgcca ggaagaggac ggccaagagg gccggttga tgatcttacc cgtctggacc atctccatt tcattccat gccctctctg ttctggagaa gccacggccg cctaagccct cccctagtc agtgcacct ccagcacgac catgttatct acacattta ctccacgtg ggtgcgtttt atatccctt gactttgata ctgattctct attaccggat ttaccacgcg gccaaagacc ttaccagaa aaggggatca agtcggcact taagcaacag aagcacagat agccagaatt ctaccagaa ttgtaaact acacagactt tctgtgtgtc tgacttctcc acctcagacc tagatcacc aggagaacgt cagcagatct ctgacaccag ggaacggaag gcagcacgca tcctggggct gattctgggt gcattcattt tatctggct gccatttttc atcaagagt tgattgtgg tctgagcacc tacacgtgt cctcggaagt ggcgacttt ctgacgtggc tcggttatgt gaattctctg atcaacctc tgctctatag gagttttaat gaagacttta agctggcttt taaaaagctc attagatgcc gagagcatat tagactgta aaaagctaaa aggcacgact ttttccagag cctcatgagt ggatgggggt aaggggtgca acttattaat tcttgaacat acttgggttca ggagagtttg taagtatgtg tggctctgtt tccttgtttg ttgtttgtt ttgttctgt ttgtttgagg attgttattt ggcgtgctgt ttctacctc tgggtcttatc tgtgatacat aatttcaaat aaacattatc atacaaaaac aaaaaaaaa aaaaaaaaa </p>	Homo sapiens
8	130	5-HT1E Receptor	NP_000856.1	<p> MNITNCTTEA SMAIRPKTIT EKMLICMTLV VITLTLLN LAVIMAIGTT KKLHQPANYL P ICSLAVTDLL VAVLVMPISI IYIVMDRWKL GYFCEVWLS VDMTCCTCSI LHLCVIALDR YWAITNAIEY ARKRTAKRAA LMILTVMTIS IFISMPPLFW RSHRRLSPPP SQCTIQHDHV IYTIYSTLGA FYIPLTLILI LYRIYHAAK SLYQKRGSSR HLSNRSTDSQ NSFASCKLTQ </p>	Homo sapiens

9	131	5-HT1F Receptor	NM_000866	<p>TFCVSDPSTS DPTTEFEKFH ASIRIPPFEN DLDPGERQQ ISSTRERKAA RILGLILGAF ILSWLPEFFIK ELIVGLSIYT VSSEVADFLT WLGYNLSLIN PLYTSEFED FKLAFFKLIR CREHT</p> <p>atggatttct taaattcatc tgatcaaaac ttgacctcag aggaactgtt aaacagaatg A ccatccaaaa ttctgggtgc cctcactctg tctgggctgg cactgatgac acaactatc aactcccttg tgatcgctgc aattattgtg acccggaagc tgaccatcc agccaattat ttaatttgtt ccttgagcag cacagatttt ctttggtgtg tcttggtgat gcccttcagc attgtgtata ttgtgagaga gagctggatt atggggcaag tggctgtgta catttggtg agtgttgaca ttacctgctg cacgtgctcc atcttgcatc tctcagctat agctttggat cggatcgcag caatcacaga tgctgttgag tatgccagga aaaggactcc aaagcatgct ggcattatga ttacaatagt ttggattata tctgttttta tctctatgcc tctctattc tggaggcacc aaggaactag cagagatgat gaatgcata tcaagcacga ccacattgtt tcacacattt actcaacatt tggagctttc tacatccac tggcattgat ttgtatcctt tactacaaaa tatatagagc agcaaaagaca ttataccaca agagacaagc aagtaggatt gcaaaggagg agtggaatgg ccaagtcttt ttggagatgt gtgagaaaaa cactaaatca gtttccacat cctatgtact agaaaagtct ttatctgacc catcaacaga ctttgataaa attcatagca cagtgaag tctcaggctc gaattcaagc atgagaaatc ttggagaagg caaaagatct caggtaacag agaacggaaa gcagcacta cctgggatt aatcttgggt gcatttgtaa ttgttggtc tctttttttt gtaaaagaat tagttgttaa tgtctgtgac aaatgtaaaa ttctggaaga aatgtccaat tttttggcat ggcttgggta tctcaattcc cttataaatc cactgattta cacaatcttt aatgaagact tcaagaaagc attccaaaag cttggcgtg gtcgatgta g</p>	Homo sapiens
10	131	5-HT1F Receptor	NP_000857.1	<p>MDFLNSSDQN LTSEELNRM PSKILVSLTL SGLALMTTII NSLVIAAIIV TRKLHPANY P LICSLAVTDF LVALVMPFS IVYIVRESWI MGQVCDIWL SVDITCCTCS ILHLSAIALD RYRAITDAVE YARKRTPKHA GIMITIVWII SVFISMPPLF WRHQGTSRDD ECI IKHDHIV STIYSTFGAF YIPLALIL YKIYRAAKT LYHKRQASRI AKEEWNGQVL LESGEKSTKS VSTSYVLEKS LSDPSTDFDK IHSTVRSLSRS EFKHEKSWRR QKISGTRERK AATTGLLILG AFVICWLPEF VKELVNVCD KCKISEMSN FLAWLGYLNS LINPLIYTF NEDEFKAFQK LVRRC</p>	Homo sapiens
11	132	5-HT2A Receptor	NM_000621	<p>gaattcgggt gagccagctc cgggagaaga gcatgtacac cagcctcagt gttacagagt A gtgggtacat caagtgtaat ggtgagcaga aactataacc tgttagtctt tctacacctc atctgtaca agttctggct tagacatgga tattctttgt gaagaaaaata cttctttgag ctcaactacg aactccctaa tgcaattaaa tgatgacacc agctctaca gtaatgactt taactctgga gaagctaaca cttctgatgc atttaactgg acagtcgact ctgaaaaatcg aaccaacctt tctgtggaag ggtgcctctc accgtcgtgt cctccttac ttcactcca ggaaaaaaac tggctctgctt tactgacagc cgtagtgatt attctaacta ttgctggaaa catactcgtc atcatggcag tgcctcctaga gaaaagctg cagaatgcca ccaactattt cctgatgtca ctgcccatag ctgatgtctt gctgggtttc cttgtcatgc ccgtgtccat gttaaccatc ctgtatgggt accgttggtc tctgcgagc agctttgtg cagtcctggat ttacctggac gtgtcttctt ccacggctc cateatgac ctctgcgcca tctcgtgga ccgctacgtc gccatccaga atcccatcca ccacagccgc ttcaactcca gaactaagc</p>	Homo sapiens

attttgaaa atcattgtctg ttgggaccat atcagtaggt ataccatgc caataccagt
 ctttgggcta caggacgatt cgaaggtott taaggagggg agttgcttac tcgccgatga
 taactttgtc ctgacgtgct cttttgtgtc atttttcatt cccctaacca tcatgtgat
 cacctacttt ctaactatca agtcactcca gaaagaagct actttgtgtg taagtgatct
 tggcacacgg gccaaattag cttctttcag cttctccct cagagttctt tgtcttcaga
 aaagtctctc cagcgttga tccataggga gccaggttcc tacacaggca ggaggactat
 gcagtcacatc agcaatgagc aaaaggcatg caagtgctg ggcacgtctc tcttctgtt
 tgtgtgtgatg tgggtgcccct tcttcacac caaatcatcg gccgtcatct gcaaaagatc
 ctgcaatgag gatgtcattg gggccctgct caatgtgttt gtttggtacg gttatctctc
 ttcagcagtc aaccacatg tctacacact gttcaacaag acctataggt cagccttttc
 acggtatatt cagtgtcagt acaaggaaa caaaaacca ttgcagttaa ttttagtgaa
 cacaatccg gctttggcct caagctctag ccaactcaa atgggacaaa aaagaattc
 aaagcaagat gccaaagaca cagataatga ctgtcctag gttgctctag gaaagcagca
 ttcctgaagag gcttctaaag acaatagcga cggagtgaat gaaaagggtga gctgtgtgtg
 ataggctagt tggcgtggca actgtggaag gcacactgag caagttttca cctatctgga
 aaaaaaaa atgagattgg aaaaaattag acaagcttag tggaaaccaac gatcatatct
 gtatgctcca ttttattctg tcaatgaaa cgggggttca atgctacaaa atgtgtgctt
 ggaaaatggt ctgacagcat ttcagctgtg agcttcttga tacttattta taacattgta
 aatgatattg ctttaaaaatg attcaccttt atgttataat tatgaagccc taagtaaatc
 taaattaaact tctattttca agtggaacc ttgtgctat ttgttctcatt gatgacatgg
 gatggagtgt gttacctatt gccgtaata aaaaatagcta taaatagtg aatttttatt
 gaataataatg gctctttaa aattatcttt aaaacttact atggtatata ttttgaagg
 agaaaaaaa aaagccacta aggtcagtgt tataaaatct gtattgctaa gataatbaaa
 tgaataactt gacaacattt tcatagata cacttttgaa atattcaciaa ggttgcgtgc
 atttgcgtga tttcaagtta attctcagaa gtgaaaaaga cttcaaatgt tattcaataa
 ctatgtctgc tttctcttct acttctgtg ctttactctg aattccagt gtggtcttgt
 ttaabatttg ttctcttagg taaactagca aaagatgat ttaacattac caaatgcctt
 tctagcaatt gcttctctaa acagcacta tcgaggtatt tggtaacttg ctgtgaaatg
 actgcatcat gcatgcactc ttttgagcag taaatgtata ttgatgtaac tgtgtcaggga
 ttgaggatga actcaggttt ccggctactg acagtggtag agtcctagga catctctgta
 aaaaagcaggt gactttccta tgacactcat caggtaaact gatgctttca gatccatcgg
 tttatactat ttattaaaac cacttctgct ggttccacaa tcatctattg agtatacatt
 tatgtgtgaa gcaaatctct agatagaga aataaaaaa taataaaaac aaaatccttg
 ccttcaaacg aaatggctcg gccaggcacy gaggtcgtg catgtaatcc tagcactttg
 ggaggctgag atgggaggat cacttgaggc caagagtgtg agaccaacct gggtacaaca
 gtgagacctc cctgtctcta caaaaaaat caaaaaatta tctgatcctt gtggcacaca
 actgtgggtcc cagctacagg ggaggctgag acgcaaggat cacttgagcc cagaagctca
 aggtgtcagt gagccaagt cacaccactg ccatttctc ctgggcaaca gagtgaagcc
 ctatcacccc gaattc

12 NP_000612.1 MDILCEINTS LSSTNSLMQ LNDTRLYSN DENSGEANTS DAFNWTVDSE NRTNLSCEGC P Homo
 132 Receptor LSPSCLSLH LQEKNSALL TAVIILITIA GNILVIMAVS LEKKLQNATN YFLMSLAID sapiens

13	133	5-HT2B Receptor	NM_000867	<p>MLLGLFVMPV SMLTILGYR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDRYVAIQNP IHHSRENSRT KAFKIIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIS LQKEATLCVS DLGTRAKLAS FSLPQSSLS SEKLFQRSIH REPGSYTGRR TMOISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNVFWIGY LSSAINPLVY TLENKTYRSA FSRYTQCQYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEASKDN SDGVNEKRVSC V tactaaccat gctgaccact gttcggaaag ggaatgaatc acagaaaaac agcaaatggc A tctctcttac agagtgctcg aacttcaaaag cacaaattct gagcaatatt tgcagagcac ctttgttcac gttatctctt ctaactgggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaag taaactgcac tggcagctc tttcgtatct catggtgata ataccacaa ttggtggaaa taccctgtt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaagtcc ttggcggctg ctgatttgct ggttgattg tttgtgatgc caattgccct ctgacaata atgtttgagg ctatgtggcc ctccactt gttctatgct ctgcttggtt atttcttgac gttctcttt caaccgcatc catcatgcat ctctgtgcca ttctagtga tctgtacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtgggttaat ttcaataggc attgccattc cagtccttat taaagggata gagactgatg tggacaaacc aaacaatata acttggtgctg tgacaaagga actgtttggc gatttcacgc tctttggctc actggctgct tcttcacac ctcttgaat aaacaagcca cctcaacgcc taacatgggtt tgctttacag aagaaggctt acttagtcaa aacaccttgc tctcaccgg aaaaggtggc gactgtgctt acagttttcc aaaggatga agacacaggc tctgcccac tcaggtgatg aaacattat aatgctggat ggttctcgaa agacaaggc tctgcccac tcaggtgatg aaacattat gcgaagaaca tccacaattg ggaacaaagc agtgcagacc atttccaaag aacagagagc ctcaaaaggtc ctagggattg tgttttctct ttttttctct atgtgtgtgc cttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagatatatt gtgtggatag gctatgttct ctcaggagtg aatcctttgg tctacacct cttcaataag acatttcggg atgcatttgg cagatataat acctgcaatt accggggccac aaagtcagta aaaaacttca gaaaacgctc cagtaagatc tacttcogga atccaatggc agagaactct aagtttttca gaaaacatgg aattcgaaat gggattaaac ctgccatgta ccagagtcca atgaggctcc gaagtcaac cattcagctc tcatcaatca tttcactaga tacgcttctc tccactgaaa atgaaggatga caaaactgaa gagcaagtta gttatgtata gcagaactgg cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaaact aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataat ttcaggcttt aaaaaaaa MALSYRVSEL QSTIPEHILQ STFVHVISSN WSGLQTESIP EEMQIIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKIQYATN YFLMSLAVD LLVGLFVMPI ALLTTFEAM WPLPLVLCPA WLFLDVLFT ASIMHLCAIS VDRYIAIKKP IQANQVNSRA TAFIKITVW LISIGIAPV PIKGIETDVF NPNNITCVLT KERFGDFMLF GSAAFFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens
14	133	5-HT2B Receptor	NP_000858.1	<p>MLLGLFVMPV SMLTILGYR WPLPSKLCV WYLDVLFST ASIMHLCAIS LDRYVAIQNP IHHSRENSRT KAFKIIIAVW TISVGISMPI PVFGLQDDSK VFKEGSCLLA DDNFVLIGSF VSFFIPLTIM VITYFLTIS LQKEATLCVS DLGTRAKLAS FSLPQSSLS SEKLFQRSIH REPGSYTGRR TMOISNEQK ACKVLGIVFF LFVVMWCPFF ITNIMAVICK ESCNEDVIGA LLNVFWIGY LSSAINPLVY TLENKTYRSA FSRYTQCQYK ENKKPLQLIL VNTIPALAYK SSQLQMGQKK NSKQDAKTTD NDCSMVALGK QHSEASKDN SDGVNEKRVSC V tactaaccat gctgaccact gttcggaaag ggaatgaatc acagaaaaac agcaaatggc A tctctcttac agagtgctcg aacttcaaaag cacaaattct gagcaatatt tgcagagcac ctttgttcac gttatctctt ctaactgggtc tggattacag acagaaatcaa taccagagga aatgaaacag attgttgagg aacagggaag taaactgcac tggcagctc tttcgtatct catggtgata ataccacaa ttggtggaaa taccctgtt attctggctg tttcactgga gaagaagctg cagtatgcta ctaattactt tctaagtcc ttggcggctg ctgatttgct ggttgattg tttgtgatgc caattgccct ctgacaata atgtttgagg ctatgtggcc ctccactt gttctatgct ctgcttggtt atttcttgac gttctcttt caaccgcatc catcatgcat ctctgtgcca ttctagtga tctgtacata gccatcaaaa agccaatcca ggccaatcaa tataactcac gggctacagc attcatcaag attacagtgg tgtgggttaat ttcaataggc attgccattc cagtccttat taaagggata gagactgatg tggacaaacc aaacaatata acttggtgctg tgacaaagga actgtttggc gatttcacgc tctttggctc actggctgct tcttcacac ctcttgaat aaacaagcca cctcaacgcc taacatgggtt tgctttacag aagaaggctt acttagtcaa aacaccttgc tctcaccgg aaaaggtggc gactgtgctt acagttttcc aaaggatga agacacaggc tctgcccac tcaggtgatg aaacattat aatgctggat ggttctcgaa agacaaggc tctgcccac tcaggtgatg aaacattat gcgaagaaca tccacaattg ggaacaaagc agtgcagacc atttccaaag aacagagagc ctcaaaaggtc ctagggattg tgttttctct ttttttctct atgtgtgtgc cttctttat tacaatatata actttagttt tatgtgattc ctgtaaccaa actactctcc aaatgctcct ggagatatatt gtgtggatag gctatgttct ctcaggagtg aatcctttgg tctacacct cttcaataag acatttcggg atgcatttgg cagatataat acctgcaatt accggggccac aaagtcagta aaaaacttca gaaaacgctc cagtaagatc tacttcogga atccaatggc agagaactct aagtttttca gaaaacatgg aattcgaaat gggattaaac ctgccatgta ccagagtcca atgaggctcc gaagtcaac cattcagctc tcatcaatca tttcactaga tacgcttctc tccactgaaa atgaaggatga caaaactgaa gagcaagtta gttatgtata gcagaactgg cagttgtcat caacataat gatgagtaag atgatgaatg agatgtaaat gtgcccagaa tatattatat aaagaatttt atgtcatata tcaaatcatc tctttaaact aagatgtaag tattaagaat atctaatttt cctaatttgg acaagattat tccatgagga aaataatttt atatagctac aaatgaaaac aatccagcac tctggttaaa ttttaaggta ttcgaatgaa ataaagtcaa atcaataat ttcaggcttt aaaaaaaa MALSYRVSEL QSTIPEHILQ STFVHVISSN WSGLQTESIP EEMQIIVEEQ GNKLHWAALL P ILMVIPTIG GNTLVILAVS LEKKIQYATN YFLMSLAVD LLVGLFVMPI ALLTTFEAM WPLPLVLCPA WLFLDVLFT ASIMHLCAIS VDRYIAIKKP IQANQVNSRA TAFIKITVW LISIGIAPV PIKGIETDVF NPNNITCVLT KERFGDFMLF GSAAFFFTPL AIMIVTYFLT IHALQKKAYL VKNKPPQRLT WLTVSTVFQR DETPCSSPEK VAMLDGSRKD KALPNSGDET</p>	Homo sapiens

15	134	5-HT2C Receptor	nm_000868	<p>LMRRSTIGK KSVQTSISNEQ RASKVLGIVF FLFLMWCPF FITNITVLVC DSCNQTLQOM LLEIFVWIGY VSSGWNPLVY TLENKTERDA FGRYITCNRYR ATKSVKTLRK RSSKIYFRNP MAENSKFFKK HGIRNGINPA MYQSPMRLRS STIQSSSIIL LDLLLLTENE GDKTEEQVSY V</p> <p>accgcgcga ggtaggcgct ctggtgcttg cggaggacgc ttcttctc agatgcaccg A atcttcccg tactgccttt ggagcgcta gatgctagc ctggctgct ccatggcct gccttgccc ttacctgcg attgcatag aactcttct ctgtctgtac atcgctgtcg tcggagtcgt cgcgacgctc gtggcgctcg tgtgatgccc ttgctccgt tagagtagtg tagttagtta ggggccaacg aagaagaaag aagacgcgat tagtgcagag atgctggagg tggtcagtta ctaagctaga gtaagatagc ggagcgaaa gagccaaacc tagccggggg gcgcacggtc acccaaggga ggtcgactcg ccggcgcttc ctatcgcc gagctccctc cattctctc cctccgcga ggcgcgaggt tgcggcgcg agcgagcgc agctcagcgc accgactgcc gcgggctccg ctgggcgatt gcagcgcagt ccgtttctcg tctagtgcc gccgcggcga ccgctgcctg gtcttctcc cggacgctag tgggttatca gctaacaccc gcgagcatct ataacatagg ccaactgacg ccatccttca aaacaaacta aaggatgata tgatgaacct agcctgttaa ttctgtcttc tcaatttaa actttggtg cttaagactg aagcaatcat ggtgaacctg aggaatgcgg tgcattcat cttgtgac cttaattggcc tattggttg gcaatgtgat attctgtga gccagtagc agctatagta actgaactt tcaataacct cgatggtgga cgcttcaaat tcccagacgg ggtacaaaac tggccagcac tttcaatcgt catcataata atcatgaca tagtgggcaa catccttg atcatggcag taagcatgga aaagaaactg cacaatgcca ccaattactt cttaatgtcc cttagcattg ctgatatgct agtgggacta ctgtcatgc cctgtctct cctggcaatc ctltatgatt atgtctggcc actacctaga tatttgctgc ccgtctggt ttcttttagat gttttattt caacagcgtc catcatgcac ctctgcgcta tatcgctgga tcggtatgta gcaatacgt atcctattga gcatagccgt ttcaattcgc ggaactaagg catcatgaag attgctattg tttgggcaat ttctataggt gtatcagttc ctatccctgt gattggactg agggacgaag aaaagggtgt cgtgaacaac acgacgtgcg tgcataacga ccaaatctt gttcttattg ggtccttcgt agctttcttc ataccgtga cgattatggt gattacgtat tgcctgacca tctacgttct gcgccgacaa gctttgatgt tactgcacgg ccacaccgag gaaccgcctg gactaaagtct ggatttctc aagtgcgca agaggaatac ggccgaggaa gagaactctg caaccctaa ccaagaccag aacgcacgcc gaagaaagaa gaaggagaga cgtcctaggg gcaccatgca ggctatcaac aatgaagaa agcttcgaa agtccctggg attgtttct ttgtgtttct gatcatgtgg tgccatttt tcattacca tattctgtct gttctttgtg agaagtcctg taacccaaaag ctcatgaaa agcttctgaa tgtgtttgt tggattggct atgtttgttc aggaatcaat cctctggtgt atactctgt caacaaaatt taccgaaggg cattctcaa ctattgctg tgcaattata aggtagagaa aaagcctcct gtcaggcaga ttccaagagt tgcgcgact gctttgtctg ggaggagagt taatgttaac attatcggc ataccaatga accggtgatc gaaaaagcca gtgacaaatga gcccggtata gagatgcaag ttgagaattt agagttacca gtaaatccct ccagtgtggt tagcgaaagg attagcagtg tgtgagaaag aacagcacag tcttttctca cggtaacaag tacatatgta ggaatattt ctctttaat ttctctgtg gtcttaacta atgtaaatat tgctgtctga aaaagtgtt</p>	Homo sapiens
----	-----	--------------------	-----------	---	-----------------

ttacatatag ctttgcaacc ttgtacttta caatacgcc tacattagt agattaggg
ttctatattt actgtttata ataggtggag actaaattat ttgtattgt ttgatgaataa
aatgtttatt ttgtctctcc ctcccttctt tcttctctt ttctcttct tcttctctt
ctctcttctt ttgtgcata tggcaacgtt catgttcac tcagggtgca ttgcaagtg
accagaatga ggacacatgac agtgggttata tttaaccac acctaaatta acaaatcag
tggacatttg ttctgggtta acagtaata tacactttac attcttgctc tgctcatcta
cacatatata cacagtaaga taggttctgc ttctgatac atctgtcagt gagtcagagg
cagaacctag tctgttgtt catatagggg caaaaattg acattgtcag aatgttgtgt
tggattttac tgcattgtct gtccctaacc atagtgggtat tttaacatag cagctgggta
accgggacta cagaagtga aggataatga gatgtaatac accaaatagc ttctcattc
ttaaggacag tgttcaaatt ctgattatta caacaagcaa actgaaatta gtgttttcat
tctggtcctt agtaaatcc taattctatg attaaactgg gaaatgagat ccagaggtta
tttcccaacc caggattcaa catcaattgg gtttgcact cagcatcctg gaaatttgtg
tgcttcacac aaagtgaat tagtattttg agccttatta aaatattttc ttaattatgg
tacctctgtc atagggactt aatttagcag tccatttttg agtaaaactt gtattggaag
tatagatggt agaaactttg gaagttttac ttgatttaagg actacagaat tgggccctta
gaatgtgaaa aaaaaaagta attaaaaaga cacttttacc gaactcggga ttacagaaac
acggagtctt catttggatt ttaacaaaaa tttcgtcat ttccagatcc ttccaaactc
tctagtgcag gaaaaggctg cagctaattt gtgaaagtgg caagctcttc attgcactgc
agttattttac cagaagttaa aatctttgtt aaaatatagt gttgtgttac aataagtgtt
ggccatcatt tcatctgtgg gcctgtgtgt ctctaaagaat tcagtagcat tttaatagtt
tctaaacctt gaaaagtgtt caagcattgc taaagtcagg ccattcagtc tatgctgtgt
gcagagtata caagtgttcc tagtaacagt atttccatcc gtgcccattt cacacaactg
tggataaatt ttggaagaat tcatgatgct agttcttiac cttgacagtt acttacacac
ctgagaatgt gcctctcagt atcttaaaat tggttaatga aaaatctgaa tttctaaac
ccttgggtctg tgttctcaac acacagtata gataaatcca atagtctgcc acaagggcag
tggaagagct gctgtatttg aggaactcca tacagtctct atttgatttg caacactggc
caaacatcag tcaattgtct gagcatgccc aaatattaca tgaagtcaa gtctacttgc
cttgcctgtt aggtctgttg aagtgcattg taaaataatt atatgaagca gaatgagatg
atttaattct taccgaaatg aaaatggctg aagaaacaca gcatgcattt agcatgagtt
ctgcacatcc agatgggtgtc ctgcatgtat gccatgtatg ttgcatgaat ccategattt
gtattaatgt agggcagaat agctgataga agaaggactg aagaaaatcc ttcagcaatc
cttaaaaaaga ccatgcattc agatctgaag tagtgtgagt gttagaaaaa actggaaca
tctgatttct gaactatcag ggcaagctca tagcacatgt tttaaaaaa acaaaatat
aatcacaga ttcccaaaag tactagcaat aagttgaatg ataatagtc acagacatt
tgttaatgat tcttgtgtca tcaagttaga gtacttaata gtaccaacc tggtaattat
cctcaagtgt tgtgtctatc gtaagtcttg tgcagtttgg tatgaacaa atatactcat
ttggatatata atcttacctt tcaatgttaa atctacaaa tttataaat gttttaaaga
agtccatgtg ataattgtaa aggtgatgaa tttaaccatca acaaatcat ttgtatgtat
tattatatat gtatatctgt gtaagacacg tgcaacagac tgccttatat tatttctgt
aattctctc ctttgtcaaa tgggtatttt ttggaatggt tgcaaatggt tgtcttattc

16	134	NP_000859.1	5-HT2C Receptor	ctaatctctg tatgttatcc actacaggtt ttatgagact tcttattaat ttattaaatt tattaaatgt tgaataaaaa aaaaaaaaaa aaaaa MVNLNRNAVHS FLVHLIGLIV WQCDISVSPV AAIYTDIFNT SDGGRFKFPD GVQNPALSI P VIIIIMTIGG NILDVIMAVSM EKKLHNATNY FLMSLAIDM LVGLLVMPLS LLAILYDVW PLPRLCPVW ISLDVLFSTA SIMHLCAISL DRYVAIRNPI EHSRENSRTK AIMKIAIWA ISIGVSVPIP VIGLDEEKV FVNNTCVLN DPNFVLSGF VQFIFPLTIM VITYCLTIYV LRRQALMLLH GHTEEPGLS LDFLKCKRN TAEEENSANP NQDNARRRK KKERRPRGTM QAINNERKAS KVLGIVFFVF LIMWCPFIT NILSVLCEKS CNQKIMEKLL NVFVWIGYVC SGINPLVYTL FNKIYRRAFS NYLRNYKVE KKPPVRQIPR VAATALSGRE LNVNIYRHTN EPVTEKASDN EPGIEMQVEN LELPNPSSV VSERISSV	Homo sapiens
17	136	NM_000870	5-HT4 Receptor	cggtgcttat ttctgtaat ggacaaactt gatgctaag tgagtctga ggagggttc A gggtcagtgga agaagtggt gctgctcacg ttctctcga cggttatcct gatggccatc ttggggaacc tgctggtgat ggtgctgtg tgctgggaca ggcagctcag gaaataaaaa acaaattatt tcaattgatc tcttgctttt gctgattcgc atctggattt atggggaggt gtttctctt cccttggtg ccattgagct ggtcaagac cctgctaca acgcatcga ttttccact gtgctgatt gttcggacat cctggacgt cctgctcag catctgctgc cagccttgg tctataggaa caagatgacc tctctggata ggtattacg catctgctgc tgctgggta tccccagtt tattttttt cctctgcga tgcattaat gctgggagc gctgggagc gctgggta tccccagtt tattttttt ctccctataa tgcaaggctg gaataacatt ggcataatg attgataga aaagaggaag ttcaaccaga actctaact tacgtactgt gtcttcatg tcaacaagcc ctacgccatc acctgctctg tgggtgacct ctacatccca ttctctcga tgggtctgac ctattaccg atctatgtca cagctaaaga gcatgccat cagatccaga tgttacaagc ggcagagacc tctccgaga gcaggcctca tgcggcagac cagcatagca ctcatgcat gaggacagag accaagcag ccaagacct gtgcatactc atgggttgc tctgcctctg ctggcacca ttctttgtca ccaatattgt ggatccttc atagactaca ctgtccctgg gcagggtg actgcttcc tctggtcgg ctatatcaat tccgggtga acctttct ctacgcttc ttgaataagt cttttagacg tgcctctc atcatcctc gctgtgata tgagcgtac cgaagacctt ccattctggg ccagactgc cctgttcaa ccacaacct taatggatcc acacatgtac taaggatgc agtgagatgt ggtggccag gggagagca gtgtcacccg ccagcaactt ctccttgggt ggctgctcag ccagtgaca cttaggcccc tgggacaaatg accagaaga cagccatgcc tccgaagag gccaggtcc taagctgctg cttgtgcg actgcaccg gcattctctt cactgagc tctccgtcc cagtgacagg aaccggtgc tcgctggg	Homo sapiens
18	136	NP_000861.1	5-HT4 Receptor	MDKLDANVSS EEGFGSVEKV VLLTFLSTVI LMAILGNLIV MVAVCWDRQL RKIKTNYFIV P SLAFADLLVS VLVMPFGAIE LVQDIWIYGE VFCIVRTSLD VLLTTASIFH LCCSIDRY AICCPPLVYR NKMTPLRIAL MLGCGWVPT FISFLPMQG WNNIGIIDLI EKRKNQNSN STYCVFMVVK PYAITCSVVA FYIPELLMVL AYRIYVTA EHAHQIOMLQ RAGASSES QADQSTHR MRTEKRAKT LCINGCFCL CWAPFFVTNI VDPFIDYVTP GQVWTAFLWL GYNSGLNPF LYAFLNKSFRA FLJILCCD DERYRPSIL GQTVPCSTTT INGTHVLDR AVECGQWES QCHPPATSPL VAAQPSDT	Homo sapiens
19	138	NM_000871	5-HT6	cccgagagcg cccattcacc cccctcacc acctccccg gttoaccatt ccccgcaactc A	Homo

21	139	5-HT7 Receptor	NM_000872	<p>ccatgggcag cggcacacgg cggcgcgatg atggaagtta acagcagcgg ccgcccggac ctctacgggc acctccgctc ttctctctctg ccagaagtgg ggcgcgggct gcccgacttg agccccgacg gtggcgccga cccggtcgcg ggtcctctgg cgcgcacact gctgagcgag gtgacagcca gcccgcgcc cactctggac ggcgccccgg acaatgcctc cggctgtggg gaaacagatca actacggcag agtcgagaaa gttgtgatcg gtcctcactc gacgctcact acgtgtctga cgatcgcggg caactgcctg gtggtgatct cagtgtgctt cgtcaagaag ctccgccagc cctccaacta cctgatcggtg tccctggcgc tggccgacct ctcggtggct gtggcggtca tgcctctctg cagcgtcacc gacctcatcg ggggcaagt gatctttgga cacttttct gtaatgtctt catcgccatg gacgtcatgt gctgcacggc ctcgatactg acctgtgctg tgatcagcat tgacaggtac ctgggatca caaggcccc cactaacct gtgagggcaga atgggaaatg catggcgaaag atgattctct cagtctggct tctctcgcc tccatcacct tacctccact ctttggatgg gtcagaatg taaatgatga taagtgtgc ttgatcagcc aggaactttg ctatacgatt tactctaccg cagtggcatt ttatatcccc atgtccgtca tgcttttcat gtactaccag atttacaagg ctgccaggaa gagtctggc aaacacaagt tctctggctt cctctgagtg gagccagaca gctcatcgc cctgaatggc atagtgaagc tccagaagga ggtggaagag tgtgcaaac ttctgagact cctcaagcat gaaaggaaaa acatctccat ctttaagcga gaacagaaag cagccaccac cctggggatc atcgtcgggg cctttaccgt gtgctggctg ccatttttcc tctctcgac agccagaccc ttcatctgtg gcaactcctg cagctgcac ccaactgtgg tggagaggac atttctgtgg ctaggctatg caaactctct cattaacctt ttatatatag ccttcttcaa cggggacctg aggaccacct atcgcagcct gctccagtgc cagtaccgga atatcaaccg gaagctctca gctgcaggca tgcataagc cctgaagcct gctgagaggc cagagagacc tgagttgtg ctacaaaaatg ctgactactg tagaaaaaa ggtcatgatt catgattgaa agcagaacaa tggag</p>	Homo sapiens
22	139	5-HT7 Receptor	NP_000863.1	<p>MDVNSSGRP DLYGHLRFL LPEVGRGLPD LSPDGGADPV AGSWAPHLLS EVTASAPTW P DAPPDNASGC GEQINYGRVE KVVIGSILTL ITLLTIAGNC LVVISVCFVK KLRQPSNYLI VSLALADLSV AVAVMPFVSU TDLIGKWF GHFCNVFIA MDVMCCTASI MTLCVISIDR YLGITRPLTY PVRQNGKMA KMILSVWLLS ASITLPLFG WAQNVNDKV CLISQDFGYT IYSTAVAFYI PMSVLMFYI QIYKAARKSA AKHKFPFPR VEPDSVIALN GIVKLOKEVE ECANLSRLK HERKNISIFK REQKAATLG IIVGAFTVCW LPFFLLSTAR PFICGTSCSC IPLWVERTFL WLGYANSLIN PFIYAFENRD LRITYRSLIQ CQYRNINRKL SAAGMHEALK LAERPERPEF VLQADYCRK KGHDS</p>	Homo sapiens
23	272	Adenosine A1 Receptor	NM_000674	<p>atgagtgtca gaagtgtgaa ggtgctctgt tctgaatccc agagcctcct ctcctctgtg A gaggtctgca ggtgagggaag ggtttaacct cactggaag aatccctgga gctagcggct gctgaaggcg tcgaggtgtg ggggcaactg gacagaacacg tcaggcagcc gggagctctg ccagctttgg tgacctggg cgggctggg agcgtcgcg agcgagccgg aggaactatga gctgccgcg gttgtccaga gccagccca cctgacgcg cgcggcccg agctctgttc cctggaaact- tgggcaactg cctggggacc cctgcggcc agcaggcagg atggtgttg cctcgtgccc cttggtgccc gtctgctgat gtgccagcc tgtgccggcc atgccgccct ccatctcagc ttccaggcc gcctacatg gcctcaggt gctcatgcc ctggtctctg tgccccggaa cgtgctggtg atctggcgcg tgaagtgaa ccaggcgctg cgggatgcca</p>	Homo sapiens

ccttctgctt catcgtgtcg ctggcgggtgg ctgagtgtgg cgtgggtgccc ctggtcacc
 cctcgccat cctcatcaac attgggccac agactactt ccacacctgc ctcattggtg
 cctgtccggt cctcattcct acccagagct ccattctggc cctgctggca attgctgtgg
 accgtacct ccgggtcaag atccctctcc ggtacaagat ggtggtgacc ccccgagggg
 cggcggtggc catagccggc tgcctggatcc tctcttctgt ggtgggactg accctatgt
 ttggtctgaa caatctgagt gcggtggagc gggcctgggc agccaacggc agcatggggg
 agcccgtag caagtgcgag ttcgagaagg tcatcagcat gtagtacatg gtctacttca
 acttctttgt tggggtgtgt ccccccttc tctcattggt cctcattctac ctggaggtct
 tctactaat ccgcaagcag ctcaacaaga agtgtgtcggc cctctccggc gaccgcaga
 agtactatgg gaaggagctg aagatcgcca agtcgctggc cctcattctc tctctctttg
 cctcagctg gctgcctttg cacatctca actgcattcac cctcttctgc ccgtccctgc
 acaagccag catccttacc tacattgcca tctctctcac gcacggcaac tcggccatga
 acccattgt ctatgcctc cgcattcaga agttccgct cacttctctt aagatttga
 atgaccattt ccgtgccaag cctgcacctc ccatgacga ggtatctcca gaagagaggc
 ctgatgacta gaccccgct tccgctccca ccagccaca tccagtgggg tctcagtcca
 gtctccacat gcccgctgtc ccagggtct ccttgagcct gccccagctg ggtgttggc
 tgggggcatg ggggaggctc tgaagagata ccacagagt gtggtccctc cactaggagt
 taactacct acacctctg gccctgcagg aggcctggga gggcaagggt cctacggagg
 gaccaggtgt ctagaggcaa cagtgtctg agccccacc tgcctgacca tccatgagc
 agtccagcgc ttcagggtgt ggcaggtctt gggagagctg agactgcaga ggaaccaact
 gggctgggag aaggtgcttg ggctctctcg gtgagggcagg ggagtctgct tgtcttagat
 gttggtgtg cagccccagg accaagetta aggagaggag agcatctgct ctgagacgga
 tggaaaggaga gagggtgagg atgcactggc ctgttctgta ggagagactg gccagaggca
 gctaaggggc aggaatcaag gacctccgt tccacctct gaggactctg gaccagggc
 cataccaggt gctagggtgc ctgctctct tgcctgggc cagccccagg ttgtactgtg
 gagaggcaga aagggtaggt tcagtaataca tttctgatga tttgctggag tgcgtgctcc
 acgcccctgg gagttagctt ggtgcggtag gtgctggcct caaacagcca cgagggtgga
 gctctgagcc ctcttcttg cctgagctt tccggggagg agcctggagt gtaattacct
 gtcattctgg ccaccagct cactggcccc cgttgccggg cctggactgt cctagggtgac
 cccattctctg ctgcttcttg ccctgatgga gaggagaaca ctgacatgc caactcggga
 gcattctgcc tgcctgggaa cggggtggac gaggagagtgt ctgtaaggac tcagtgttga
 ctgtaggcgc cctgggggtg ggtttagcag gctgcagcag gcagaggagg agtaccctcc
 tgagagcatg tgggggaagg cctgtctgtc atgtgaatcc ctcaatccc ctagtatctg
 gctgggtttt caggggcttt ggaagctctg ttgcaggtgt ccgggggtct aggaacttag
 ggaatctggga tctggggaag gaccaacca tgcctgcca agcctggagc cctgtgttg
 gggggcaagg tgggggagcc tggagcccc gtgtgggagg gcgagggcgg ggagcctgga
 gcccctgtgt gggagggcga ggcgggggat cctggagccc ctgtgtcggg gggcgaggga
 ggggaggttg ccgtcggttg acctctgaa catgagtgc aactccagg cttgcttcca
 agccctccc tctgttgga attggtgtg cctggctcc caaggaggc ccatgtgact
 aataaaaaa tgtgaacctt

24 Adenosine A1 NP_000665.1 MPPSISAFQA AYIGIEVLIA LVSVPGNVLV IWAQVQAL RDAFFCIVS LAVADVAVGA P Homo

25	273	Receptor	Adenosine A2a Receptor	NM_000675	<p> LVIPLAAILN IGPQTYFHTC LMVACPVLLI TQSSILALLA IAVDRYLVRK IPLRYRMVVT PRRAAVAIAG CWILSFVUGL TPMFGWNLS AVERAWAANG SMGEPVIKCE FEKVISMEYM VYENFFWVL PPLLMLVIY LEVFLIRKQ LNKVVSASSG DPQKYGKEL KIAKSLALIL FLFALSWLPL HILNCITLFC PSCHKPSILT YIAIFLTHGN SAMNPVIVAF RIQKFRVTFL KIWNDFRCQ PAPPIDELP EERPD ttctcaggtg cctcaggaac cctgaagctg ggtgagacca tgatgtgtct gccagaaccc A ctgcagaggg cctggtttta ggagactcag agtctctgt gaaaaagccc ttggagagcg cccagcagg gctgcacttg gctcctgtga ggaaggggctc gagggtgtcg gcccctccg cctgggcccg gctgggagcc aggcggcgcg ctgggctgca ccaatggacc gtgagctggc ccagcccgcg tccgtgtgta gctgctgtg cgtctgtggc catgcccac atgggctcct cgtgtacat cactggtggag ctggccattg ctgtgctggc catcctgggc aatgtgtgtg ttgtgtgggc cgtgtggctc aacagcaacc tgagaaacgt caccaaactac ttgtgtgtgt cactggcgcc ggcgcacatc gcagtgggtg tgcctggccat cccctttggc atccacatca gcaccgggtt ctgcgctgcc tgccacggct gctcttcat tgcctgttc gtccgtgtcc tcacgcagag ctccatcttc agtctcctgg ccacgtccat tgaccgtac attgccatcc gcaccccgct ccggtacaat ggcttggtga ccggcacgag ggctaaggcc atcattgcca ttgtgtgggt gctgtcgttt gccatgggcc tgactcccat gctagggttg acaactgtcg gtccagccaaa ggagggcaag aaccactccc aggtctcgcg ggagggccaa gtggcctgtc tctttgagga tgtgtcccc atgaactaca tgggtgactt caacttcttt gcctgtgtgc tgggtccct gctgtctatg ctgggtgtct atttgcgat ctctctggcg gcgcgaagac agctgaagca gatggagagc cagcctctgc cgggggagcg ggcacgggtcc acactgcaga aggaggtcca tgcctgcaag tcactggcca tcaatgttgg gctctttggc ctctgtgtgg tgcccttaca catcataac tgcctcactt tcttctgccc cgaactgcag cagccctc tctggctcat gtacctggcc atcgtcctct ccacacacaa ttcggttgg aatcccttca tctacgccta ccgtatccgc gagtccgccc agactctcc caagatcatt cgcagccacg tctgaggca gcaagaacct ttcaaggcag ctggcacccag tgcccgggtc ttggcagctc atggcagtga cggagagcag gtacgacctc gtctcaacgg ccaccgcca ggagtgtggg ccaacggcag tgctccccac cctgagcgga ggcacaaatgg ctatgcccgt ggcctgtga gtggaggagg tgcccaagag tccccaggga acacgggct cccagacgtg gagtctctta gccatgagct caaggagtg tgccagagc ccctggcct agatgacccc ctggcccagg atggagcagg agtgcctga tgattcatgg agtttgccc ttcctaaagg aaggagatct ttatctttct ggttggcttg accagtccag ttgggagaag agagagagt ccaggagacc ctgaggggcag ccggttctta ctttgactg agagaaggga gcccaggct ggagcagcat gaggccccc aagaaggct tgggttctga ggaagcagat gtttcatgct gtgagccctt gcaccagggt ggggccacag caccctgtct ccacagagca gcttggggcac agcagactgg gcagaagcat ctggaagcac cacttgtct tagcctcctg ccaccacac accactctcc cctggccctg agactgggga gtggtccaa tagcctcctg ggcacagagg tgacatttga ctttttoca ctgactctc ctagggttca ggaagtgtg aaacctttt tattttatta cctttcactc tctgtgtgt ggaaaaatgt aagtgtgagg aacctttt gcaccagagc ctctgcccgg ggagcctcag ggtgtgcgg tcggtcctgc tgctaacctg cacttctca gtcccaggcg catctcttgg gcagtcctct cctgtgtga cagctgccat cacttctca gtcccaggcg catctcttgg </p>	sapiens
					<p> ttctcaggtg cctcaggaac cctgaagctg ggtgagacca tgatgtgtct gccagaaccc A ctgcagaggg cctggtttta ggagactcag agtctctgt gaaaaagccc ttggagagcg cccagcagg gctgcacttg gctcctgtga ggaaggggctc gagggtgtcg gcccctccg cctgggcccg gctgggagcc aggcggcgcg ctgggctgca ccaatggacc gtgagctggc ccagcccgcg tccgtgtgta gctgctgtg cgtctgtggc catgcccac atgggctcct cgtgtacat cactggtggag ctggccattg ctgtgctggc catcctgggc aatgtgtgtg ttgtgtgggc cgtgtggctc aacagcaacc tgagaaacgt caccaaactac ttgtgtgtgt cactggcgcc ggcgcacatc gcagtgggtg tgcctggccat cccctttggc atccacatca gcaccgggtt ctgcgctgcc tgccacggct gctcttcat tgcctgttc gtccgtgtcc tcacgcagag ctccatcttc agtctcctgg ccacgtccat tgaccgtac attgccatcc gcaccccgct ccggtacaat ggcttggtga ccggcacgag ggctaaggcc atcattgcca ttgtgtgggt gctgtcgttt gccatgggcc tgactcccat gctagggttg acaactgtcg gtccagccaaa ggagggcaag aaccactccc aggtctcgcg ggagggccaa gtggcctgtc tctttgagga tgtgtcccc atgaactaca tgggtgactt caacttcttt gcctgtgtgc tgggtccct gctgtctatg ctgggtgtct atttgcgat ctctctggcg gcgcgaagac agctgaagca gatggagagc cagcctctgc cgggggagcg ggcacgggtcc acactgcaga aggaggtcca tgcctgcaag tcactggcca tcaatgttgg gctctttggc ctctgtgtgg tgcccttaca catcataac tgcctcactt tcttctgccc cgaactgcag cagccctc tctggctcat gtacctggcc atcgtcctct ccacacacaa ttcggttgg aatcccttca tctacgccta ccgtatccgc gagtccgccc agactctcc caagatcatt cgcagccacg tctgaggca gcaagaacct ttcaaggcag ctggcacccag tgcccgggtc ttggcagctc atggcagtga cggagagcag gtacgacctc gtctcaacgg ccaccgcca ggagtgtggg ccaacggcag tgctccccac cctgagcgga ggcacaaatgg ctatgcccgt ggcctgtga gtggaggagg tgcccaagag tccccaggga acacgggct cccagacgtg gagtctctta gccatgagct caaggagtg tgccagagc ccctggcct agatgacccc ctggcccagg atggagcagg agtgcctga tgattcatgg agtttgccc ttcctaaagg aaggagatct ttatctttct ggttggcttg accagtccag ttgggagaag agagagagt ccaggagacc ctgaggggcag ccggttctta ctttgactg agagaaggga gcccaggct ggagcagcat gaggccccc aagaaggct tgggttctga ggaagcagat gtttcatgct gtgagccctt gcaccagggt ggggccacag caccctgtct ccacagagca gcttggggcac agcagactgg gcagaagcat ctggaagcac cacttgtct tagcctcctg ccaccacac accactctcc cctggccctg agactgggga gtggtccaa tagcctcctg ggcacagagg tgacatttga ctttttoca ctgactctc ctagggttca ggaagtgtg aaacctttt tattttatta cctttcactc tctgtgtgt ggaaaaatgt aagtgtgagg aacctttt gcaccagagc ctctgcccgg ggagcctcag ggtgtgcgg tcggtcctgc tgctaacctg cacttctca gtcccaggcg catctcttgg gcagtcctct cctgtgtga cagctgccat cacttctca gtcccaggcg catctcttgg </p>	Homo sapiens

26	Adenosine A2a Receptor	NP_000666.2	MPIMGSSVYI	TVELAIAVLA	ILGNVLVCWA	VMLNSNLQNV	TNYFVWSLAA	ADIAVGVLAI	P	Homo sapiens
273			PEFAITISTGF	CAACHGCLFI	ACFVLVLTQS	SIFSLLAIAI	DRYIAIRIPL	RYNGLVTGTR		
			AKGIIAICWV	LSFAIGLTPM	LGNWNCQPK	EKNHVSQCG	EGQVACLFED	VPMNVMVYF		
			NEFACVLVPL	LMLGVLYRI	FLAARRQLKQ	MESQPLPGER	ARSTLQKEVH	AAKSLAIIVG		
			LFALCWLPLH	IINCFTFFCP	DCSHAPLWLM	YLAIIVLSHTN	SVNPFYIAY	RIREFRQTFR		
			KIIRSHVLRLQ	QEPFKAAGTS	ARVLAAHGSD	GEQVSLRLNG	HPPGVMWANGS	APHPERPPNG		
			YALGLVSGGS	AQESQNGTGL	PDVELLSHEL	KGVCEPPPGI	DDPLAQDGAG	VS		
274	Adenosine A2b Receptor	NM_000676	gggcaatttg	ttagttattcc	gcgcaccaa	agacgcgga	cggcgccctgg	accgaggggg	A	Homo sapiens
			ccccgcggg	gcgcgaactt	tgggctcggg	cgagtgggtg	gtgtctccgc	cagcccgaga		
			cgggcggcg	cgcgggccaa	tgggtgccgc	ctcttggcgg	cggggggccc	cgcacccgtgg		
			gtcccggcca	ccagcgcccc	agccccgag	ctcagaagcg	gcagcgggag	gcgcggtccg		
			ggcgctatgg	ccatgcgcgg	cgggtctcac	cgggctgccc	ctgcgccggc	gcgccttcgg		
			tagggggcgc	ccggggccca	gctggccccg	ccatgctgct	ggagacacag	gacggctgtg		
			acgtggcgct	ggagctggtc	atgcgcgcgc	tttcggtggc	gggcaacgtg	ctgggtgtgcg		
			ccgcggtggg	cagcgggaac	actctgcaga	cgccccacca	ctacttctcg	gtgtccctgg		
			ctgcggccga	cgtggccgtg	gggtctcttcg	ccatccccc	tgccatcacc	atcagccctgg		
			gcttctgcac	tgactttctac	ggctgcctct	tcctgcctcg	cttcgtgctg	gtgctcacgc		
			agagctccat	cttcagcctt	ctggccctgg	cagtcgacag	atacctggcc	atctgtgtcc		
			cgctcaggta	taaaagtltg	gtcacgggga	cccgagcaag	aggggtcatt	gctgtcctct		
			gggtccttgc	ctttggcatc	ggattgactc	cattcctggg	gtggaacagt	aaagacagtg		
			ccaccaacaa	ctgcacagaa	ccctgggatg	gaaccacgaa	tgaagctgc	tgccctgtga		
			agtgtctctt	tgagaatgtg	gtccccatga	gtcacatgg	atatttcaat	tctcttgggt		
			gtgttctgcc	cccactgctt	ataatgctgg	tgatctacat	taagatcttc	ctgggtggcct		
			gcaggcagct	tcagcgcact	gcagtgatgg	accactcgag	gaccacctc	cagcgggaga		
			tccatgcagc	caagtcactg	gccatgattg	tggggatttt	tgccctgtgc	tggttacctg		
			tgcatgctgt	taactgtgtc	actcttttcc	agccagctca	gggtaaaaat	aagcccaagt		
			gggcaatgaa	tatggccatt	cttctgtcac	atgccaatc	agttgtcaat	cccattgtct		
			atgcttacccg	gaaccgagac	tcccgctaca	cttttcacaa	aattatctcc	aggtatcttc		
			tctgccaaagc	agatgtcaag	agtggggaatg	gtcaggctgg	ggtacagcct	gctctcgggtg		
			tgggcctatg	atctaggctc	tcgcctcttc	caggagaaag	tacaaatcca	caagaaaaaa		
			agaggacacg	gctgggttttc	atbtgaaaag	atagctacac	ctcacaggga	aatggactgc		
			ctctctttgag	cacttccctg	gagctaccac	gtatctagct	aatatgtatg	tgtcagtagt		
			aggctcccaag	gattgacaaa	tatatattatg	atctattcacg	ctgcttttac	tgtgtggatt		
			atgccaaacag	cttgaatgga	tcttaacaga	ctctttttgt	tttaaaagtc	tgccctgtttt		
			atgggtggaaa	attactgaaa	ctattttact	gtgaaacagt	gtgaactatt	ataatgcaaa		
			tacttttttaa	cttagaggga	atggaaaaat	aaaagttgac	tgtactaaaa	atg		

28	274	Adenosine A2b Receptor	NP_000667.1	MLETQDALY VALELVIAL SVAGNVLVCA AVGTANTLQT PTNYFLVSLA AADVAVGLFA P IPFAITISLG FCTDFYGCIF LACFVLVLTQ SSIFSLAVA VDRYLAICVP LRYKSLVTGT RARGVIAVLW VLAFIGIGLTP FLGWNKSDSA TNNCTEPWDG TTNESSCLVK CLFENVVPM YMYENFFGC VLPPLIMLV IYIKIFLVAC RQLQTELMQ HSRTTIQREI HAAKSLAMIV GIFALCWLVP HAVNCVTLFQ PAQGNKPKM AMNMAILLSH ANSVNPIVY AYRNRDFRYT FHKIISRYLL QOADVKSGNG QAGVQPALGV GL	Homo sapiens
29	275	Adenosine A3 Receptor	NM_000677	cttctgtctg caaaggctgg gtatcggtcg tgcacagaa agcgtcaact cgtgcaagaa A cttagcagga atagttctgg ctatggttag gagcttgcca ccaaggtctc tttttgttc ctctgcttct ccggtttgcc tccattatcat gagatctttt tgcctaagctg gcagaaagat tgcatagtca gtgcttccag ctctgtcccc accgtatcct gcactgtcct ctggtccctg aatgaatgaa ctctgatacc caatctgtc tccagccttc tctatgccac tcatggtctc tctctgtc ttccatctt ttgtctgaga gtctgtagct ctgtacttcc tcttggtcca tctcaattcc tgaacacccc ctgaagaggg ttgcttatct tgaaggaaact caaaagacca aaaagctgca ggcagagggc ttgaggacat ctgtttgggg aactaagagc agcagcactt tcagattcag tccatataga gctgtccctac agcattctgg aaacttgagg atgtgcggtg cataaagggg ctggaagtga cccacctgtg atgagccctt tctaaggaga aggtttcca agagatcacc ccaccagaaa aggttaggaa tgaacaaagt gggaaattta gactgtcact gcacatggac ctctgggaag acgtctggcg agagctaggc ccaactggccc tacagacgga tcttgctggc tcacctgtcc ctgtggaggt tccctggga aggcaagatg cccaacaaca gcaactgctc gtcatggcc aatgtacct acatcacctt ggaattttc attgactct gcgcctagt gggcaacgtg ctggtcatct gcgtggtcaa gctgaacccc agcctgcaga ccaccacct ctatttcat gtctcttag ccttggtga catgtctgt ggggtgctgg tcatgctttt ggccattgtt gtcagcctgg gcatcaaat ccacttctac agtgccttt ttatgacttg cctactgctt atctttacc acgctccat catgtccttg ctggccatcg ctgtggaccg atacttgcg gtcaagctta ccgtcagata caagagggtc accactcaca gaagaatatg gctggccctg ggcctttgct ggcgtggtgc attcctggtg gattgaccc ccatgttttg ctggaacatg aaactgacct cagagtacca cagaaatgtc acctccttt catgccaat tgtttccgtc atgagaatgg actaatggt atactcagc ttcctacct ggattttcat cccctgggtt gtcatgtcg ccatctatct tgacatcttt tacatcattc ggaacaaact cagcttgaac ttatctaact ccaagagac aggtgcattt tatggacggg agttcaagac ggctaagtcc ttgtttctgg ttcttttctt gtttgctctg tcatggctgc ctttatctat catcaactgc atcatctact ttaatgggtga ggtaccacag cttgtgctgt acatgggcat cctgtgtcc catgcaact ccatgatgaa cctatcgtc tatgcctata aaataaagaa gttcaaggaa acctaccttt tgatcctcaa agcctgtgtg gtctgccatc cctctgattc ttggacaca agcattgaga agaattctga gtagtattcc atcagagatg actctgtctc attgaccttc agattcccca tcaacaacaa cttgagggcc tgtatgctg ggccaagga tttttacatc ctgattact tccactact ccttccctca tccagtgtc cccaattata tctccccac tccactact acttgcctga aactatttt cctttgtcct ttctctctaa ttcagtgttt tggagcctg acttggggag aactattat tgatattat gtctgttttc ctcttccca atagaagaat aagtcattga gcctgaagg tgcctagtgtg acttactgac aaaaggctct agttgggctg aacatgtgtg tgggtgtgac tcatttccat	Homo sapiens

30	275	Adenosine A3 NP_000668.1 Receptor	gccattgtgg aattgagcag agaacctgct ctccgaggat gctagaaga tgttggaac agaagaata aactgagttt aaggggagct taaactgctg aattcacctg tggatgttt tgagtaata aaagctaata g MPNNSPALSL ANVTYITMEI FIGLCAIVGN VLVICVVKLN PSIQTTTFYF IVSLALADIA P VGLVMPPLAI VSLGITIHF YSCLFMTCLL LIFTHASIMS LLAIAVDRL RVKLTVRVYKR VTTHRIWLA LGLCWLVSFL VGLTPMFGWN MKLTSEYHRN VTFLSQCFVS VMMDYMYVF SFLTWIFIPL VVMCAIYLDI FYIIRNKLSL NLSNKETGA FYGREFKTAK SLFLVLFLEFA LSWLPLSIIN CIIFYNGEVP QLVLYMGILL SHANSMNP I VYAYKIKKFK ETYLLILKAC VVCHPSDSLD TSIEKNSE	Homo sapiens
31	309	Melanocortin NM_000529 2 Receptor (adrenocorti cotropic hormone) (MC2R)	atgaagcaca ttatcaact gtatgaaac atcaacaaca cagcaagaaa taattccgac A tgtctcgtg tggttttgcc ggaggagata tttttcaca tttccattgt tggagttttg gagaatctga tgcgtcgtgct ggctgtgttc aagataaaga atctccaggc acccatgtac tttttcatct gtactgtggc catabctgat atgtgggca gactatataa gatcttgaa aatatcctga tcatattgag aaacatgggc tatctcaagc cactgtggag ttttgaacc acagccgatg acatcatcga ctccctgttt gtctctccc tgcttgctc catcttcagc ctgtctgtga ttgctgcgga ccgtacatc accatcttc acgcactgcg gtaccacagc actgtgacca tgcgccgcac tgtgtgtgtg ctacgggtca tctggacgtt ctgcacggg ctgttccccg tgaatgtgtg ctctcccat catgtgcca cagtgtacac cttcacgtcg cgatccacca ccagggaagat ctccacctc ccagagacca cactgaaagg ggcatacaca ctgaccatcc tgcctgggggt ctctcatctc tgcctgggcc cctttgtgct tcatgtctc ttgatgacat tctgcccaag taacctctac tgcctgtgt acatgtctc cttccaggtg aacggcatgt tgatcatgtg caatgcctc attgacctc tcatatagc cttccggagc ccagagctca gggacgcatt caaaaagatg atctctgca gcaggtaactg gtag MKHIINSYEN INNTARNNSD CPRVLPPEI FFTISIVGL ENLIVLLAVF KNKNLQAPMY P FFICSLAISD MGLSLYKILE NILIILRNMG YLXPRGSFET TADDIIDSIF VLSLLGSIFS LSVIAADRYI TIFHALRYHS IVTMRRTVV LTIVITFCTG TGITMVIFSH HPTVTITFTS LFLMLVFIL CLYVHMFLLA RSHTRKISTL PRANMKGAT LTILLGVFIF CWAPFVLHVL LMTFCPSNPY CACYMSLEQV NGMLINCNAV IDPFIYAFRS PELRDAFKKM IFCSRYW	Homo sapiens
32	309	Melanocortin NP_000520.1 2 Receptor (adrenocorti cotropic hormone) (MC2R)	tcctgccggc cgctcgttct gtgcccccg cccggccacc gacggcccg cgtagagatg A actttccgag atctcctgag cgctcagttc gagggaaccc gcccgacag cagcgaggg ggctccagcg cggcgcgcg cggcgcgcg cggcgcgcg cggccccctc ggagggccc gcggtggcg gcgtgcggg gcgcgcggg gcgcgcggg gcgtggtggg cgcagcgagc ggcgaggaca accggagctc cgcgggggag cggcgcgcg cggcgcgcg cgcgacgtg aatggcacgg cggcgctcgg gggactggtg gtgagcgcg agggcggtgg cgtagcgctc ttctggcag ccttcacct tatggccgtg gcaggtaacc tgcttgctcat cctctcagtg gcctgcaacc gccacctgca gaccgtacc aactattca tctgtaacct ggcgtggcc gacctgtgc tgacggcac cgtaactgcc tctcggcca ccatggaggt tctgggcttc tgggcctttg gccgcgctt ctgcagcta tggcgcccg tggagctgct gtgtgcacg gcctccatcc tcagcctctg caccatctc ttggaccggt acgtggcggt gcgccactca	Homo sapiens
33	376	Alpha 1d- adrenoceptor		Homo sapiens

34	Alpha 1b- adrenoceptor	NP_000669.1	376	ctcaagtacc cagccatcat gaccgagcgc aaggcggcgc ccatcctggc cctgctctgg gtcgtagccc tgggtgtgtc cgtaggggcc ctgtcgggct ggaaggagcc cgtgccccct gacgagcgct tctgcggtat caccgagtag gcgggctacg ctgtcttctc ctccgtgtgc tccttctacc tgcccatggc ggtcatcgtg gtcatgtact gcgcgtgtgta cgtggtcgcg cgacgacca cgcgcagcct cgaggcagcc gtcaagcgcg agcgaggcaa ggcctccgag gtggtgctgc gcatccactg tcgcggcgcg gccacgggcg cgcacggggc gcacggcatg cgacgcgcca agggccacac ctccgcgagc tcgtctctcc tgccctgtct caagtctcc cgtgagaaga aagcgcccaa gactctggcc atcgtcgtgg tbtctctcgt gctctgtctgg ttccctttct tcttctgctt gccgtcggc tcctgttctc cgcagctgaa gccatcgtag ggcgtcttca aggtcatctt ctggctcggc tacttcaaca gctgcgtgaa cccgtcatc taccctgtt ccagcccgga gtcaagcgc gcccttctcc gctcctcgc ctgccagtgc cgtcgtcgc ggcgcgcgc cctctcttg cgtgtctacg gccaccactg gcgggcctcc accagcgcc tgcgccagga ctgcgcccc agttcgggcy acgcgcccc cggagcgcg ctggccctca cgcgcctccc cgaccccgac ccgaacccc caggcacgcc cgagatgcag gtcccggtcg ccagccgtcg aaagccacc agcgccttcc gcgagtggag gctgctggg ccgttcgga gaccacgac ccagctcgc gccaaagtct ccagcctgtc gcacaagatc cgcccgggg gcgcgcagcg cgcagagga cgtgtcggcc agcgtcaga ggtggagct gtgtccctag gcgtccca cgcagtgccc gagggcgca cctgccaggc ctacgaattg gccactaca gcaacctacg ggagccgat atttaaggac cccagagcta ggcgcggag tgtcgtggc ttgggggtaa gggggaccag agagcgggc tgggttctta agagccccg tgcaaatcgg agacccgga actgatcag gcagctcgc tgtgacatcc ctgaggaact gggcagagct tgaggctgga gcccttgaag ggtgaaagt agtggggccc cctgctggac tcagggtccc agaactctt tcttagaagg gagaggtcgc gggctccgtg gggcctttg ctcccaatcc ctatttgaga aacactgccc cctcctccat gccctgaacc ctgagtagac agcccaagc atggccagga agcctgccc SGEDNRSSAG EPGSAGAGD VNGTAAVGGI VVSAQGVGVG VFIAAFILMA VAGNLLVILS VACNRHLQTV TNYFIVNLAV ADLLSATVL PFSATMEVLG FWAFFRAFCF VWAADVILCC TASILSLCTI SVDRYGVGRH SLKYPAINTE RKAAAILALL WVVALVSVG PLLGWKEPVP PDERFCGITE EAGYAVFSSV CSFYLPMAVI VMYCRVYV ARSTTRSLEA GVKRERKAS EVLRIHCRG AATGADGAHG MRSKAGHTFR SLSVRLLEKF SREKKAATL AIIVGVFVLC WPFEEFVLPL GSLFPQLKPS EGVFKVIFWL GFYNSCNPL IYPCSSREFK RAFLRLLRCQ CRRRRRRRPL WRVYGHWRRA STSGLRQDCA PSSGDAPPGA PLALTALPDP DPEPPGTPEM QAPVASRRKP PSAPREWRL GPFRPTTQL RAKVSSLSHK IRAGGAQRAE AACQARSEVE AVSLGVPEV AEGATCQAYE LADYSNLRET DI agggcaggaga cgtgctgcgg gctgggctgc ccgggggaga tgactcctgc caggaggcgcg A cctctctggga gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgcg cagcccttcc gagcccaatc atccccagg ctatggaggg cggactctaa gatgaatccc gacttgaca cgggccaca cacatcagca cctgccact ggggagagtt gaaaaatgcc aacttactg gccccaacca gacctagagc aactccacac tgccccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccctcatcc tctttgccat cgtgggcaac	Homo sapiens
35	Alpha 1b- adrenoceptor	NM_000679	377	agggcaggaga cgtgctgcgg gctgggctgc ccgggggaga tgactcctgc caggaggcgcg A cctctctggga gaagaccacg ggggaagcaa agtttcaggg cagctgagga gccttcgcg cagcccttcc gagcccaatc atccccagg ctatggaggg cggactctaa gatgaatccc gacttgaca cgggccaca cacatcagca cctgccact ggggagagtt gaaaaatgcc aacttactg gccccaacca gacctagagc aactccacac tgccccagct ggacatcacc agggccatct ctgtgggcct ggtgctgggc gccctcatcc tctttgccat cgtgggcaac	Homo sapiens

36	Alpha 1b- adrenoceptor	NP_000670.1	<p>atcctagtca tctgtgtgtg ggcctgcaac cggcacctgc ggacgccac caactacttc attgtcaacc tggccatggc cgacctgctg ttgagcttca cgcctctgcc cttctcagcg gccctagagg tgcctggcta ctgggtgctg gggcgatctc tctgtgacat ctgggcagcc gtgatgtcc tgtgctgcac agcgtccatt ctgagcctgt gcgccatctc catcgatcgc tacatcgggg tgcgtactc tctgcagtat cccacgctgg tcacccggag gaaggccatc ttggcgctgc tcaagtgtcg ggtctgttcc accgtcatct ccatcgggcc tctccttggg tggaaggagc cggcacccaa cgatgacaag gagtgcgggg tcaccgaaga acccttctat gccctcttct cctcctctgg ctccttctac atccctctgg cggtcattct agtcatgtac tgcctgtct atatatgtgc caagaagacc acaagaacc tagaggcagg agtcatgtaa gagatgtcca actccaagga gctgacctg aggatccatt ccaagaactt tcacgaggac acccttagca gtaccaaggc caaggccac aaccacagga gttccatagc tgtcaaaact tttaagtctc ccagggaataa gaaagcagct aagacgttgg gcattgtggt cgtatgttc atcttgtgt ggtaccctt cttcatgct ctaccgttg gctcctgtt ctccacctg aagcccccg acgctgtgt caagtgtgtg ttctggctgg gctacttcaa cagctgectc aaccocatca totaccatg ctccagaag gatttcaagc ggccttctgt gcgcatectc gggtgccagt gccgcggcgc cggccgcgc cgaagccgc gccgcgctg cctgggcggc tgcgctaca cctaccggcc gtggacgcgc ggcgctcgc tggagcgtc gcagtcggc aaggactcgc tggacgacag cggcagctgc ctgagcggca gccacggac cctgcctcg gcctgcgcca gccgggcta cctgggcgc ggcgcggcac cgcagtcga gctgtgcgc ttccccagt ggaaggcgc cgggcctcgc ctgagcctgc cgcgcctga gcccccgcc cgccggcc gccacgactc gggccgctc ttacacttca agtccctgac cgagccgag agccccgga cgcagcgccg gccacgaac ggagctgcg agccgcggc gcagtgggc aacgggcagc cgggcttcaa aagcaaatg cccctggcg cgggcagtt ttaggcccc cgtgcgacg tttcttccc tggggaggaa aacatcgtgg ggggga</p>	Homo sapiens
37	Alpha 1c- adrenoceptor	NM_000680	<p>VLGAFILFAI P DITRAISVGL FSAALEVLGY WVLRIFCDI KRTTNLEAG KAAKTGLGIV SSKEFKRAEV GSCLSGSQRT PPGRRGRHDS GPLFTFKLLT SNMPLAPGQF</p> <p>gaattccgaa teatgtgcag aatgctgaat ctccccacg ccaggacgaa taagacagcg A cggaagaaga gattctcgta attctggaat tgcagtgtgc aaggagtctc ctgagatctc gcaccagct tcgggtaggg agggagtccg ggtcccgggc taggccagcc cggcaggtgg agagggtccc cggcagcccc gcgcgcccc ggcctatgct ttaatgccct gcccttcat gtggccttct gaggttccc agggctggcc aggggtgttt ccaccccg cgcgcgctct ccccccagc caaacccacc tggcagggtt cctccagcc gagacctttt gattccccg tcccggtct cgcctccgc gccagcccg gaggtggccc tggacagccg gacctcgccc ggccccggt gggaccatgg tgtttctctc gggaaatgct tccgacagct ccaactgcac</p>	Homo sapiens

38	Alpha 1c- adrenoceptor	NP_000671.1	<p> ccaaccgccc gacccgggtga acattttccaa ggcatttctg ctgggggtga tcttgggggg cctcattctt ttcgggggtgc tgggtaacat ctagtgatc ctctccgtag cctgtcaaccg acactgcac teagtcaacgc actactacat cgtcaacctg gcgggtggccg acctctgct cactccacg gtgctgacct tctccgacct cttagaggtc cttaggctact gggccttcgg cagggtcttc tgaacatct tgcacgcagt ggcggtgctg tgcgtgacct cgtccatcat gggctctgc atcatctcca tgcacgcgta cctggcgctg agctaccgc tgcgtacccc aacatcgtc acccagagga ggggtctcat ggcgtgctc ggcgtgctg cactctccct ggteatatcc attggacccc tgttcggctg gaggcagccg gccccgagc acgagaccat ctgcagatc aacgaggagc cgggctacct gctcttctca gcgctgggct ccttctacct gcctctggcc atcatcctgg tcatgtactg cgggtctac gtcgtggcca agaggagag cggggccctc agtctggcc tcaagaccga caagtcggac tcggagcaag tgacgtccc catccatcgg aaaaacgccc cggcaggagg cagcgggatg gccagcgcca agaccaagc gcacttctca gtgaggctcc tcaagtctc cgggagaaag aaagcggcca aaagctggg catcgtggtc ggctgcttcg tccctgctg gctgctctt tcttagtca tgccattgg gtcttcttc cctgatttca agcctctga aacagttttt aaatagtat tttggctcgg atatctaac agctgcata accccatcat ataccatgc tccagccaag agttcaaaaa ggcctttcag aatgtcttga gaatccagtg tctccgaga aagcagctct ccaacatgc cctgggctac acctgcacc gcgccagcca ggcgtggaa gggcaacaca agacatgggt gcgcatcccc gtgggataca gagagacct ctacaggata tccaagacg atgctgtttg tgaatggaaa ttttctctt ccatgccccg tggatctgac aggtattacg tgtccaaaga ccaatcctcc tgtaccacag cccgggtgag aagtaaaagc ttttggagg tctgctgctg tgtaggcccc tcaaccccca gccttgacaa gaacatcaa gttccaaaca ttaagttcca caccatctcc ctcagtgaga acggggagga agtctaggac agaaaagatg cagaggaaaag gggaataatc ttaggtaccc accccacttc ctctcggaa ggcagctct agaccaact caagacagga ccaatcaaa aggggacctg ctgggaatgg ggtgggtggt agaccaact catcaggcag cgggtagggc acagggaaga gggagggtgt ctcaacaaca accagttcag aatgatacgg aacagcattt cctgcagct aatgctttct tggtaactt gtgccaact caacgaaaac caccatggga aacagaattt catgcacaa ccaaaagact ataatatag gattatgatt tcatcatgaa tattttgagc acacactcta agttggagc tattcttga tggaagtga gggattttat tttcaggctc aactactga cagccacatt tgacattat gccggaattc </p>	Homo sapiens
39	Alpha 2a- adrenoceptor	NM_000681	<p> gagctcggcg cccaccaggc ggacgccag gagaacctt gcctccgtcg cggtccttg A agagctgac gttcacctgc cccggccccg ctgaggacgg ggggtgccttc atgcggcccc </p>	Homo sapiens

caactctc acccgccg cgccgcgtc ccgagctcc gcacagtgc cccagcccc
agcggcgc acaacttgg agtctgcg gctccgag aggcgcaga gtccgcgcc
cagccccgg cgggcccgg ccagaaccg agctctgg ggaagccaga gactcgtaa
tcgcttcgg gatgaagg gacagacata gggccccg aacggtaa acctctgt ttcgtcagg
ctgctccc agatataga tatgatag tataatata ttaatttc tgctacatt
ccaagttatc agggcacga tgattttgt tctccttct tgaagaataa atctctttt
acctatcgc tctccctact ctctccgccc gcttagaact aaaacttggc tgtattgga
gtcggagca agaaggccc caccgagag gtctgaagc ggcagccagg cagtttcgc
ggccccgg catggccc tagcgtct cagttcgg cccggcctc ctgcggccc
ctcctatgt ggcgcgag caggcgagc gggcgccga ggaagagg gacccaggg
cgccggccc gaaggcagc ggcagcagg ccaggccagc gggcgccc gtcatgtc
cgccaggag agcgttgc cagggcagc ttgccccca tggctcct gcagccggac
gggggcaac cgagctgga cgggaccgag gcgcgggg ggcggccc ggcacccc
tactcctgc aggtgacgt gacgttgtg tgcctggcg ccctgtcat gctgtcac
gtgttcgga acgtgctgt catcatgcc gtgttcacga gccgcgct caaggcccc
caaacctct tctgtgtgtc tctggctcg gcgacatcc tggtgccc gctgtcatc
ctttctgc tggccaaaga ggtcatggc tactgtact tggcaaggc ttggtcgag
atctacctg cgtcgcagt gctctctgc acgtgtcca tctgtacct gtgcgcac
agcctggac gctactggtc catcacag gccatcgat acaacctgaa gcgcagccg
cgccatca agccatcat catcacgtg tgggtcatc cggcgtcat ctcctccc
cgtcatct ccacagagaa gaaggcgcc ggcggcgcc gcgagccgc cgagccgc
tgccagatca acgaccagaa gtgtacgtc atctgtctg gctcggctc cttctcgt
cctgcctca tcatgacct ggtctacgt cgcattacc agatgccaa gctgcacc
cggtgccac ccagccgcg ggtccggac gcgtgcgc gcgcgcgg ggcacagg
cgaggccca acggtctgg ccccgagcg agcggggc cgggggggc agagccgaa
cgctgcca cccagctcaa cggccctt ggcgagccc ggcggcgcc gccgcgac
accgacgc tggacctgga ggcagcgtc tctccgacc acgcgagcg gctccagg
ccccgac ccagcgcgg tcccgggg aaaggcaag cccgagcag ccagtgaag
cgggcgaca gcctgcgc gcgcggccc gggcgacgg ggtcgggac gccgctgca
ggccgggg aggagcgt cggggtgccc aaggcgtgc gctggcgcc ggcgagaa
cgagaaag gcttaagtt cgtctggcc gtgtcatc ggtgttct ggtgtctg
ttcccttct tcttacct caagtcacg gcgtcgggt gctccgtgc acgcgctc
ttcaaatct tcttctgtt cggctactgc aacagctgt tgaacccgt catcaccc
atctcaacc acgatttcc cgcgccttc aagaagatcc tctgtcggg gacaggaag
ggatcgtgt gagtttccg ctgggcccc cgtagactca cgtgactgc aggcgggg
gggcatcg ggtgcttag cccaggga ctcagaaac cgggcgtgc ctgctctgc
tttccctgc tgggtggt ctgcagcct ctgcggcg gcgtctgtg ctcctacaag
ggaagcttct tgcgtccagg ccacacatc ccagttgtt ggtttggcca ccttgacct
ggagccatct tctagtgg ccacccctaa tcaatttg ttcctaaag tatttcacc
ctctcgtct ggtacagccc tcacagctct tcagagcaag cactggacta caaggcgtg

40	Alpha 2a- adrenoceptor	AAA51664.1	<p> gctcacaaaa ggttaaatgga tggggggttac ctagecctgg ctaattcccc ttccattccc aactctctct ctctttttga agaaaaatgc taaggcagc cctgcctgcc ctcccaccc cccgcgtgaa atatacacta tttttgatag cacacatggg gcccccatat ctcttggeet tggttttgat gttgaaatcc tggccttggg agagatgcct tcacaggcaga cacagctgtc tggttcaggc caagccccctt tgcaatgcaa gccctttctg gtgttatgaa gtccctctat gtcgtcgttt tcaccagcaa ctggtgactg tccctcgac acggacctgc tttgagattt cctgacaggg aaaagatttc tgtccatttt tttcctgtgc ctaacagcat aattgccttt tcctatgtaa atattatgat ggtggatcaa gatataagta aatgagcctt tctgcctcac atcagccctg tgtataaagc cattattctc tgcatactg ttgccccag taactcactt taaaacctct ctttccagtg ttcctctctt ccctccaggg ccactgcttg aagaagaata tgtatgtttc tatcttttat gtctgtgtgc ccctcctgcc cgaagatgc tgactatggg gaaatctttt agtgcgtgtt tttagactcc agggagtggg aattatgtg aagaagcaaa cctgatacaa ttggcccaag gtaaacagtt tgaaaagaca aatgggcctg ccaaaactgta cagttttctc cccaagagct gttaggtatc aaatgttgt cctttcccc ctcctgtgctt ttctggttga gatcatgtca ttgatgaact gccaaagtca ggggaggagg gcagagactt tgtgtttaca tctgcatttc tacatgtttt agacagagac aatttaaggc ctgcactctt atttcaacta agaaaaaacta atgtcagcac atgttgctaa tgacagtggg tttttttta aataaaaaag tttacagatc aaatgtgaaa taatatgtaa tggagtggtc aaa MGSLLQPDAGN ASWNGTEAPG GGARATPVSLL QVTLTLVCLA GLMLLTVFG NVLVIIVFT P SRALKAPQNL FLVSLASADI LVATLVIPFS LANEVWGYY FGKTWCEIYL ALDVLFCISS IVHLCAISLD RWSITQAI E YNLKRTPRRI KAIITCWVI SAVISFPPLI SIEKKGGGGG PQPAERPECEI NDQWYVISS CIGSFFAPCL IMILVYRIY QIAKRRTVP PSRRGPDAVA APPGGTERRP NGLGPERSAG PGAAEAELP TQLNGAPGEP APAGPRDTDA LDLEESSSD HAERPPGPRR PERGPRGKGK ARASQVKPGD SLRGAGRGR GSGRRLOGRG RSASGLPRRR AGAGGQNLEK RFTFVLAVI GVFWVCWEPF FFTYTLTAVG CSVPTLTFK FFWFGYCNSS LNPVTYITFN HDPFRRAFKKI LCRGDRKRIV </p>	Homo sapiens
41	Alpha 2b- adrenoceptor	NM_000682	<p> atggaccacc aggaccctca ctccgtgcag gccacagcgg ccatagcggc ggccatcacc A ttctcatttc tctttaccat ctctgcgaac gctctggtca tcttgctgt gttgaccagc cgctcgctgc ggcctctca gaacctgttc ctggtgtcgc tggccgcgcg cgacatcctg gtggccacgc tcatcatccc ttctcgtctg gccaacgagc tgcctgggcta ctggtacttc cggcgacagt ggtgcgaggt gtacctggcg ctgcagctgc tctctgcac ctgctccatc gtgcacctgt ggcctatcag cctggacgcg tactgggccc tgagccgcgc gctggagtag aactccaaag gacccccgcg ccgcatacaag tgcatactcc tcactgtgtg gctcategcc gccgtcatct cgctgcgcgc cctcatctac aaggcgacc agggccccc gccgcgcggg cgccccagtg gcaagctcaa ccaggaggcc tgggtacatcc tggcctccag catcgatct ttctttgctc cttgcctcat catgatcctt gtctacctgc gcactacct gatcgccaaa cgacgcaacc gcagaggctc caggggcctg gggcagggtga gtccaagcag ccccgacccg accatggtgg ggcctttggcc tcagccaaac tgcagccct ggcctctgtg gcttttgcca gagagggtcaa cggacactcg aagtcactg gggagaagga ggaaggggag acccctgaag atactgggac ccgggccttg ccaccagtt gggctgcct tcccaactca ggccagggcc agaaggagggtg tgtttgtggg gcactctccag aggatgaagc tgaagaggag </p>	Homo sapiens

gaagaggagg aggaggagga ggaagagtgt gaaccocagg cagtgccagt gtctccggcc
 tcagcttgca gcccgcgt gcagagcca cagggtccc ggtgctggc caccctacgt
 ggccagggtgc tctgaggcag ggcgtgggt gctataggtg ggcagtgggt gcgtcgaagg
 gcgcacgtga cccgggagaa gcgttccacc tctgtgctgg ctgtgggtcat tggcgttttt
 gtgctctgct ggttccctt ctcttccagc tacagctgg ggcctatctg cccgaagcac
 tgcaagggtgc cccatggcct ctccagttc ttctctgga tgggtactg caacagctca
 ctgaacctg ttatctacac catctcaac caggacttc gcgtgcctt ccggaggatc
 ctgtgccgcc cgtggaccca gacggcctgg tagcccgcc tgcgtgccc ctgtggggtt
 ggtgcgggtgg gcgcgggtc accctgttc ttgcccgtct gtgtgtggt gcctcccctg
 ggctttctgc tccctgcca gatcctgtag gcctcatctt aggaacctt tgggaggggt
 gggcaggggg gctgctagca aggtcccag tgaagcttc cctggccggc ttagctgtgg
 gggacctt ctccacctc tccctgagca caggccgat gagggtgtt aaatcctg
 gaacatagcc aagaccagga gaagagagag cacttcttc ccagagccc atgctctcca
 gaccaatgtc tgggcttccc ttcttgagg acctgtgtt ctggcagggt cacttgcttg
 tgggttttc gttcttttt catctcccc ccaccacaa agagcacgga gccagccttc
 cacttttccc agtggggcct gctgctgagg gggaggaaga aacgaagact gatcacccac
 gctaggcact cgcggtccc gcaggcgtg ggtggggg ttatgggtg gcctgtctc
 tgggcccctc ttcccctt tgcctgttc ggatcgtgg ttctttgaa agccagaaca
 atggatcgcc ttcttacc agcacccctc cgttaggtgg gtggccactt ggtgacctg
 ctggggagggt cttggaggcc tggctctgc ctgcagggc gatccccat cactggcatt
 caccctctgc aaaaatcgg gcgacaatag ctcactgct actgtgca gggagatgaa
 aggctttgca gaaagcttg agctctgtg ggaacacac tagagaacca aaatgtgat
 tataatgtga tataaaatc ccttccctc gtgttacc caactgtct tctgtagac
 tttgttctg tccctgggt gtgtgaatc ctaccgaa ctggaagcc ggaagtggcag
 acagaatcac tattcaagt taaaggatc ctttgaat ttgttcttct ggtgcaaaag
 gtctgagtta ttacgtaca tgacaacgt tcgacattc accggcaaca ccaagagggt
 ttttagtggc ttgggtctc ccagtggggg ataagtctt tgcctcaag gaggcaaat
 gtctcccaa gacagctcaa aatatccaca cctcggaac agtctaagat gagagcctgt
 gacaggtggc aggcoccca ggtgggttac tggatcaga gctggtgct cccctagggg
 agcctccac tggagtccc ggcaggtct ccaagccca atgagtcct tgtgaaccac
 aactgatccc cccaggtgg tgcctgtgga ctgctcgga ccagccacg ctgctcccc
 caatgctgat ggggctgctc attgaggacc cctgctctc ggtctcagt cccaccccaa
 aacctggcac ccagaacagt tggagtggt gaaaggaggt ttatcgccct tccctggag
 agggcctggc ttaacattg ggcagtagg catcttagct tggcaggtgt cgggggaatg
 ggccagatgg acctgctaga ttgggaagg caccgagga gtttctctgg tgtagagaga
 atggagggga ccaaaaag tccttctgg ggtgtggag gcttcccagc ttggtcctca
 gtgggttgtt gagccagag tatcgccctg ggtgtggtg gggagctgg ccaggagagg
 gactgactgt gacctctgc tggcgggtct tgggtggcc ccatgggacc cccagtgtc
 ttgctgtga cctcttatg cgacatgcag gtgggtgtt tttttttt taaactctga
 gctattttat caataaagga tattttgtaa taag

Homo

P

RSLRAPQNL

ALVILAVLTS

FLILFTIFGN

ATAAIAAIT

MDHQDPYSVQ

NP_000673.1

Alpha 2b-

388

42

[illegible]

44	389	Alpha 2c- adrenoceptor	NP_000674.1	MASPALAAL AVAAAGPNA SGAGERSGG VANASGASWG PPRQYSAGA VAGLAAVVGF P LIVFTVGNV LVVIAVLSR ALRAPQNLFL VSLASADILV ATLVMPPFSLA NELMAYWYFG QVWCGVYIAL DVLFTSSIV HLCALSLDRY WSVTQAVEYN IKRTPRRVKA TIVAVWLISA VISFPPLVSL YRQPDGAAYP QCGLNDETMY ILSSCISFF APCLIMGLVY ARIYRVAKRR TRTLSEKRAP VGPDGASPTT ENGLGAAAGE ARTGTARPR PTWSRTRAQ RPRGGAPGPL RRGRRRAGA EGGAGGADGQ GAGPGAQSG ALTASRSPG GRLSRASSR SVEFFLSRRR RARSVCRRK VAQAREKRET FVLAVVMGVF VLCWFPPFFI YSLYGICREA CQVPGPLFKF FFWIGYCNSS LNPVIYTFN QDFRSEFKHI LFRRRRGFR Q	Homo sapiens
45	599	Bradykinin B1 Receptor	NM_000710	ctgtgcatgg catcatctctg gccctctta gagctccaat cctccaaaca gagccagctc A ttccctcaaa atgctacggc ctgtgacaaat gctccagaag cctgggacct gctgcacaga gtgtgcccga catttatcat ctccatctgt ttcttcggcc tcttagggaa ccttttctg ctgttggtct tctcctgccc cggcgggcaa ctgaacgtgg cagaaatcta cctggccaac ctggcagcct ctgactctgtt gtttgtcttg gcttgccct tctgggcaga gaatatctg aaccagtta actggcctt cggagccctc ctctgccgtg tcatcaacgg ggtcatcaag gccaatttgt tcatcagcat ctctctggtg gtggccatca gccaggaccg ctaccgcgtg ctggtgcacc ctatggccag cgggaaggcag cagcggcgga gccaggcccg ggtcactgc gtgtcatct ctgtgtgtgg gggcctcttg agcatcccca cattcctgct gcgacctc caagccgtcc cagatctgaa caccaccgcc tgcactctgc tctcccca tgaggcctg cactttgcaa ggattgtgga gttaaatatt ctgggttcc tctaccact ggctgcgac gtctcttca actaccacat cctggcctcc ctgcgaacgc gggaggaggt cagcaggaca agagtgcggg ggcggaagga tagcaagacc acagcgtga tctcagct cgtggttgc ttcttggtct gctgggccc ttaccacttc ttgacctcc ttgaaattct attccaggtg caagcagtc gaggtctgtt ttgggaggac ttcatgacc tgggacctga attggccaac ttctttgct tcaactacag ctccctgaat ccagtaatt atgtcttgt gggccggtc ttcaggacca aggtctggga actttataaa caatgcacc ctaaaagtct tgcctcaata ttctcatccc ataggaaaga aatcttccaa cttttctgac ggaattaaaa cagcattgaa cc	Homo sapiens

46	599	Bradykinin B1 Receptor	NP_000701.1	MASSWPPELEL QSSNQSLFPP QNATACDNAP EAWDLLHRVL PTFIISICFF GLLGNLFVLL P	Homo sapiens
				VFLPRRLN VAEIYLANLA ASDLVFVLGL PFWAENIWNQ FNPWFGALLC RVINGVIKAN	
				LFISIFLVA ISQDRYRVLV HPMASGRQOR RRQARVTCVL IWVVGLLSI PTFLLRSIQ	
				VPDLNITACI LLLPHEAWHF ARIVELNIG FLEFLFQVQA VRGCFWEDFI DLGLQLANFF	
				RGPKDSKTTA LILTLVAFVLC VOWAPYHEFA TPKS LAPISS SHRKEIFQLF WRN	
47	600	Bradykinin B2 Receptor	NM_000623	atgtttctctc cctggaagat atcaatgttt ctgtctgttc gtgaggacct cgtgccacc A	Homo sapiens
				acggcctctt tcaagcgcga catgtccaat gtcaccttg aagggtccac tcttaacggg	
				acctttgcc agagcaaatg cccccaagt ggtcgtgtg gccacctag agaaccatt tgcctcagc	
				cccccttcc tctgggtgtg tgcacaagag cagctgcacg gtggcagaga totacctggg gaacctggcc	
				gtcttctgcc tgatcctggc ctgagggtg cgtcctctg cgtcctggg ccatccacc ctccaacaac	
				ttcgactggc tctttggga gacgtctgc cctgatctg gtgagcatcg accgtacct gtccctgggtg	
				ctgtacagca gcatctgtt cctgatctg gtgcgtggc ccatgctga atgacctat cctcatgaac	
				aaaaccatgt ccatgggccc gatgcgggc cctgagctca ccatgctga tgtccggac catgaaggag	
				atctgggggt gtacgtgtc cgtgacctc cctgaatgtc gtgggttcc tgtgacctt gagtgtcatc	
				tacagcgatg agggccacaa cgtgacctc cctgaatgtc gtgggttcc tgtgacctt gagtgtcatc	
				gaagtgttca ccaacatgct cctgaatgtc cctgaatgtc gtgggttcc tgtgacctt gagtgtcatc	
				accttctgca cgtgacgat catgacgatg gtgcacgatg cgtgcacgat ggtgcacgat ggtgcacgat	
				gagatccaga cggagaggag ggccacgatg cgtgcacgat ggtgcacgat ggtgcacgat ggtgcacgat	
				atctgtgtgc tgccttcca gatcagcacc ttcctggata cgtgcacgat cgtgcacgat cgtgcacgat	
				ctctccagct gccaggacga ggcacatc cgtgcacgat gatgatac cagagatgc cctctcatg	
				gcctacagca acagctgctt caacctcgt caacctcgt ggtgcacgat ggtgcacgat ggtgcacgat	
				aagaagctt gggagggtga ccaggaggtg tgcagagaa ggggtgcag gtcagaaacc	
				atlcagatg agaactccat gggcacactg cggacctcca tctcctgga acgccagatt	
				cacaaactgc aggactgggc agggagcaga cagtgcagaa acgccagcag ggtgcctgtg	
				aatttgtga aggattgagg gaaatgagtt gatgtctcc gtaaaacacc ggagactaat	
				acatctatgc acgacctgg gaaatgagtt gatgtctcc gtaaaacacc ggagactaat	
				tctgtccctg ccaaatcttg caggagcat ggtgtgtgag atgggtgaa ctacagcaca	
				gccaaggact ccaaatccac aacagcatta ctgttcttat tgcctgccc acctgagcca	
				gctgtcctt tccaggagt ggaggaggcc tggggggagg gagaggagt actgagcttc	
				cctcccgtgt gttctcgtc cctgcccag caagacaact tagatctca ggagactgc	
				catccagctt tgggtgcaatg gctgagtgca caagtgaatt gttgacctgg gtttctttaa	
				tctattcagc tagaactttg aaggacaatt tcttgcatata ataaagtta agcctgagg	
				ggtccctgat aacaacctgg agaccaggat ttatggctc cctcactga tggacaagga	
				ggtctgtgccc aaagaagaat ccaataagca catattgagc acttgctgta tatgcagtat	
				tgagcactgt aggcaagacc caagaagag agggagccat ctccatcttg aaggaactca	
				aagactcaag tgggaacgac tgggacctgc caccaccaga agctgttctg acgagacggt	
				cagagcagggt gctgtgggtg atattgacag cagaagggg agaccaaggt tccagctcaa	
				ccaataacta ttgcacaacc acctgtccct gctcagttc ccttttatgt aacatgaagt	
				cgttgtgagg gtaaaaggca gtaacaggta taaagtactt agaaagcaa aggtgtgtac	

48	600	Bradykinin B2 Receptor	NP_000614.1	<p>gtacatgtga ggcatacatta cgcagacgta actgggatat gtttactata aggaaaagac actgaggtct agaaatagct ccgtggagca gaatcagtat tgggagccgg tggcgggtgtg aagcaacagt gtctggcaca cagtagtgtc tcattggctc ccttccacct gtcattocca ccacctgag gccccaaccg ccacacacac agagcatttt ggagagaagg ccatgtcttc aaagtctgat ttgtgatgag gcagaggaag atatttctaa tcggtcttgc ccagaggatc acagtgtcta gacccccac caccagccgg tacctgggaa gggggagagt gcaggcctgc tcagggactg ttctgtctc agcaaccaag ggattgttcc tgtcaatcaa tggtttattg gaagtggtcc cagtatgagc cctatgagag tgtgaaaagg atggcaatg gtgttcacca tcggcagtgc cagggcagca ctctattcact tgataaatga atatttatta gctggttgga gagctagaac ctggagagct agaacttggga gaactagaac ctggagggtt agaacttggga gaggctagaa ccaagaaggg ctagaacctg gaggggctag aacctagaga agctaaaaacc tgagctagaa gctggaggac tagaacctgg agggctggaa tctgaagggc tagaacctgg agggctggaa tctggagagc tagaacctgg agggctagaa cctggagggc tagaacctag aagggtctaga acctggaggg ctggaatctg gagagctaga acctggaggg ctagaacctg gagggctaga acctagaagg gctagaacct ggagggttag aacctggcag gttagaacct agaagggtcta gaacctggag agccagaacc tggagggtcta gaacctggaa gggctagaac ctgtagagct agaactgga gagctagaac cgggcaggct agaactggc aagctagaac ctggagggtga tgaacctgga gggctagaac ctggagatg agaaaaattt acatggcaaa gagccataaa atcttgacca atccactct gaattttaa gcaaaagcgt gaaaaaaag attccctct taccaccaac ccactcttt tcccaccac ccactctct ctcctcagt aagtatctgg aggaagaaaa cagtggaag agaatgaaa aacctttag tattagtatt agaatgaagt caaactgtc cacacatggt gaatgaaaa aaaaaaaag aggtgtgtt ttgtcacaca gggcagtcac tcagcacacg agcagtgat ggtctgagac tctcttagga gcagagctct gcgcaatgg ccattgtggg atccacacct ggtctgagg gcaactgagt ctgcgggaga agagcggccc tatgcatggt tagatgccc tgataaagaa catctgtct gtgaaagact caatgagctg ttatgttgta aacaggaagc atttcacatc caaacgagaa aatcatgtaa acatgtgtct ttctgtaga gcataataaa tggatgaggt ttttgcaaaa aaaaaaaaa aaa</p>	Homo sapiens
49	635	Beta-1 adrenoceptor	NM_000684	<p>PFPLWVLFVL ATLENIFVL VFCILKSSCT VAEIVLGNIA AADLIACGL PFWAITISNN FDWLFGETLC RVVNAIISMN LYSSICFLML VSIDRYLALV KTMSGMRMG VRWAKLYSLV IWGCTILLSS PMLVFRMKE YSDEGHNVT A CVISYPSLIW EVFTNMLNV VGFLPLSLVI TFCTMQIMQV LRNNEMQKFK EIOTERRATV LVLVLLLF1 ICWLFPQIST FLDTLHRLGI LSSQDERII DVITQIASFM AYSNSCLNPL VYIVGKRFR KKSWEVYQGV CQKGGCRSEP IQMENSMTL RTSISVERQI HKLQDWAGSR Q</p>	Homo sapiens

50	Beta-1 adrenoceptor	NP_000675.1	<p> taccacacct cttcatcatg tccctggcca ggcgcgacct ggtcatgggg ctgctggtgg tgccgttcgg ggcaccatc gtggtgtggg gccgtgtgga gtacggctcc ttctctgcg agctgtggac ctacgtggac gtgctgtggg tgacggccag catcgagacc ctgtgtgtca ttgccctgga ccgtacctc gccataacct cgccttccg ctaccagacc ctgctgacgc gcgcgcgggc ggcggggcctc gtgtgcaccg tgtgggacct ctgcggcctg gtgtccttc tgcccatcct catgcaactg tggcggggcg agagcgacga ggcgcgcgcg tgctacaacg acccaagtg ctgcgacttc gtcaccaacc gggcctacgc catcgctcgc tccgtagtct ccttctacgt gccctgtgc atcatggcct tegtgtacct gcgggtgttc cgcgaggccc agaagcaggt gaagaagatc gacagctggc agcgccttt cctcggcggc ccagcgggc cgccctcgcc ctgcgccctg cccgtcccc cgcccgccgc ggcgcgcgga ccccgcgcc ccgcgcgcgc cgccgccacc gcccgcctgg ccaacggggc tgcgggtaag cgcggccct cgcgcctcgt ggcctacgc gacgagaag cgctcaagac gctggggcat atcatgggcg tcttcacgct ctgctggctg ccttcttcc tggcaacct ggtgaaggc ttccacgcg agctggtgcc cgaccgctc ttgcttctc tcaactggt gggctacgc aactcggcct tcaaccccat catctactgc cgcagcccc acttcgcaa ggccttccag ggaactgctc gctgcgcgcg cagggtgccc cgccggcgcc acgggaccca cggagacgg ccgcgcgct cgggtgtct ggcgcggccc ggacccccg catcgcccg ggcgcctcg gacgacgacg acgacgatgt cgtcggggc acgcgcgcg cgcgcctgct gtagccctgg gccggctgca acggcggggc ggcgggggac agcgactcga gcttgagca gccgtgcgc cccgcttcg cctcggaatc caaggtgtag ggcgcggcg ggcgcgcgga ctcggggcac ggttccacg gggaacgagg agatctgtgt ttacttaaga ccatagcag gtgaactcga agccacaat cctcgtctga atcatccgag gcaagagaa aagccacgga ccgttgaca aaaaggaaag tttgggaagg gatgggagag tggctgtctg atgtctctg ttg </p>	Homo sapiens
51	Beta-2 adrenoceptor	NM_000024	<p> MGLMALIVL LIVAGNVIV VAIKTPRLQ TLNLFIMSL ASADLMGLL VVFGATIV WGRWEYGSFF CELMTSDVL CVTASIEIIC VIALDRYLAI TSPFRYQSL TRARAGLVC TVWALISLV FLPILMHWWR AESDEARRCY NDPKCCDFVT NRAYAIASSV VSFYVPLCIM AFVYLRVRE AQKQVKIDS CERRFLGGA RPPSPSPSPV PAPAPPSPV RPAATAATAP LANGRAGKRR PSRLVALREQ KALKTLGIIM GVFTLCWLPF FLANVVKAFH RELVPDRLFV FENWLGYANS AFNPIIYCRS PDKFAFQGL LCCARRARR RHATHGDRPR ASGLARPGP PSPGAASDD DDDVVGATP PARLLEPWAG CNGGAAADSD SSLDEPCRPV FASESKV actgcgaagc ggcttcttca gagcacgggc tgggaactggc aggcacgcgc agcccttagc A accgcacaag ctgagtgtgc aggcagagtc cccaccacac ccacaccaca gccgctgaat gaggttcca ggcgtccgct cgcggcccg agagccccgc cgtgggtccg cccgtgagg cgccccagc cagtgcgctt acctgcgaga ctgcgcgcca tggggcaacc cgggaacggc agcgccttct tgcctggcacc caatagaagc catcgcccg accacgacgt caccagcaaa agggacgagg tgtgggtggt gggcatgggc atcgtcatgt ctctcatcgt cctggccatc gtgtttggca atgtgctggt catcacagcc attgccaagt tcgagcgtct gcagacggtc accaactact tcatcacttc actggcctgt gctgatcttg tcatgggctt ggcagtgggtg ccctttgggg ccgcccatac tcttatgaaa atgtggacct ttggcaact ctggtgcgag ttttggactt ccattgatgt gctgtcgctc acggccagca ttgagaccct gtgcgtgatac </p>	Homo sapiens

52	640	Beta-2 adrenoceptor	NP_000015.1	<p>gcagtggatc gctactttgc cattacttca cctttcaagt accagagcct gctgaccaag aataaggccc gggtagatcat totgatgtg tggattgtgt caggccttac ctccttcttg ccattcaga tgcactggta ccgggccacc caccagaag ccatcaactg ctatgccaat gagacctgct gtgacttctt cactggtgat catggtcttc gtctactcca ggtctcttca ggaggccaaa ttctaegtcc cctggtgat catggtcttc gtctactcca ggtctcttca ggaggccaaa aggagctcc agaagattga caaatctgag ggcgcttcc atgtccagaa ccttagccag gtggagcagg atgggaggac ggggcatgga ctccgagat ctccaagt ctgcttgaag gagcacaaag cctccaagac gttaggcac atcatgggca cttccacct ctgctggctg cccttcttca tegttaacat tgtgcatgtg atccaggata acctatccc taaggaaagt tacctctcc taaattggat aggtatgtc aattctgtt tcaatcccc tatctactgc cggagccag attcaggat tgcctccag gagcttctgt gctgcgcag gtcttctttg aaggcctatg ggaatggcta ctccagcaac ggcaacacag gggagcagag tggatatcac gtggaacagg agaaagaaaa taaactgctg tgtgaagacc tccaggcac ggaagacttt gtgggccatc aaggtactgt gcctagcat aacattgatt cacaaggag gaattgtagt acaaatgact cactgctgta aagcagtttt tctacttta aagaccccc ccccccaac agaacactaa acagactatt taacttgagg gtaataaaact tagaataaaa ttgtaaaaat tgtatagaga tatgcagaag gaaggcatc ctctgcctt tttattttt ttaagctgta aaaagagaga aaacttattt gagtgcattat ttgtatttt tacagttcac ttcctctttg catggaattt gtaagtttat gtctaaagac ctttagtctt agaggacctg agtctgctat atttcatga cttttccatg tatctacctc actatcaag tattagggtt aatatattgc tgcggglaa tbtgatctga aggagatttt ccttctaca ccttggact tgaggatttt gagtatctcg gaccttccag ctgtgaacat ggactcttcc cccactctc ttatttgctc acacggggtg ttttaggcag gatttgagg agcagcttca gttgtttcc cgagcaagg tctaagttt acagtaata aatgtttga ccatg</p>	Homo sapiens
53	643	Beta-3 adrenoceptor	NM_000025	<p>gctactctc ccccaagac ggtggcaccg agggagtgg ggtgggggga ggtgagcgc A tctggctggg acagctagag aagatggccc aggtgggga agtgccttc atgcctgtt gtccctccc ctgagccagg tgatttgga gacccctcc ttcctttt cctaccgcc ccacgcgga cccgggatg gctccgtggc ctccagaga cagctctctt gcccatggc cggacctccc caccctggc cccaataccg ccaacaccag tgggctgcca ggggttccgt ggagggcggc cctagccggg gcctgctgg cgtggcggt gctggccacc tggggaggca acctgctggt catcgtggc atgcctgga ctccgagact ccagaccatg accaactgt tegtgacttc gctggccgca gccgacctgg tgatgggact cctggtgtg ccgcccggg ccacctggc gctgactggc cactggcgt tgggcgccac tggctgcag ctgtggacct cgggtggact gctgtgtgtg accgccagca tggaaacct gtgcgccctg gccgtggacc</p>	Homo sapiens

gctacctggc tgtgaccaac cggctcgctt acggcgcaact ggtcaccagg cgctgcgccc
 ggacagctgt ggtcctgggtg tgggtcgtgt cggcgcgggt gtogtttgcg cccatcatga
 gccagtgggtg gcggctaggg gccgacgcgg aggcgcagcg ctgccactcc aaccgcgct
 tctctctctt cgcctccaac atgcccctacg tgcctgcgtc ctcctccgtc tccttctacc
 tgcgttgcct cgtgatgctc ttcgtctacg cgggggtttt cgtggtggct acgcgccagc
 cgcgctctct ggccccggcc cgggtgcgct ttcgcgcga ggagtctccg ccggcgccgt
 gcggcgggcg gcccgccctc ctcctgcctc tccgggaaca cggggccctg tgcacctggg
 gtctcatcat gggcaccttc actctctgct ggttgcctt cttctggcc aactgctgc
 gcgacctggg ggccccctct ctagtccgg gcccgcttt cttgacctg aactggctag
 gttatgcaaa ttctgccttc aaccgctca tctactgccc cagcccgac tttcgacgg
 ccttcgcccg tcttctgtgc cgtgcggcc gtgcctgccc tccggagccc tgcgcgccc
 ccgcgcggcg cctcttcccc tccggcgttc ctgcggccc gagcagccc gcgcagccc
 ggctttgcca acggctcgac ggggcttctt ggggagtttc ttaggcctga agacaagaa
 gcaacaactc tgttgatcag aacctgtgga aaacctctgg cctctgttca gaatgattcc
 catggattc cccgctgtg acactctacc ctccagaacc tgacgactgg gccatgtgac
 ccaaggaggg atccttacca agtgggtttt caccctctc cctccctcag tggtagtgc cagtgccgt
 gttttctaaa cccagcctt gaactctact cctccctcag tggtagtgc cagtgccgt
 ggagcagcag gctggctttg ttaggggcac ccatcacccc gcttgccctg gcagtcaatg
 agtgccttag gcaagagag ctccctggt tccattcctt ctgccacca aacctgatg
 agacctagt gttctccagg ctctgtggcc caggtgaga gcagcagggt agaaaagacc
 aagatttggg gttttatctc tggttccctt attactgctc tcaagcagtg gcctctctca
 ctttagccat ggaatggctc cgatctacct cacagcagtg tcagaaggac, ttcgccaggg
 ttttgggagc tccagggttc ataagaaggt gaaccattag aacagatccc tcttttct
 tttgcaatca gataaataaa taccactgaa tgcagttcat cctcgcccc ctttccctcc
 gttgttttct ttttcataat ccacttactc ctttcccttc tactctgcgc tggcttttga
 cagaggcagt aaattaggcc taactctcac tcttttcttc ctaactctca tcaacaaaa
 aatgaaaaagt ctgtctggac gaaggaggat gactttgagc ctttgatatac ttgtccccc
 acccttccctg aaactcttga aatccagttg ccattgagta gcaagccac gctccccaca
 ggacttggac agaggggcca cagggggatg ggtgggctgt gccaggttt agggcagggg
 gcatttgtcc cctccatgct ataactcagt ggtgccttac atggtgtgtg tgtgtgtgtg
 tgcgtgtgtg tgtgtgtgtg tgtgtgtgga ggacacagga caaagcattg cttgggttgg
 tcaaatgtct tgtgtcataa atatatctg atgttccca gccttccac aacctctacc
 ttcccaactca ccttcccccg ctacaaaaat ctgtattatc ctctaaagt aaaactggag
 ttac

54 643 Beta-3 NP_000016.1 MAPPHENSS IAPWPDLPFL APNTANTSGL PGVPWEAALA GALLALAVLA TVGGLIVIV P Homo
 adrenoreceptor AIATPRLQT MTNVFTSLA AADLVMLLV VPPAATLALT GHWPLGATGC ELWTSVDVLC sapiens
 VTASIELICA LAVDRYLAVT NPLRYGALVT NPLRYGALVT VVVSAVSVF APIMSQWVRV
 GADAEAQORCH SNPRCCAFAS NMPYVLSSS VSEYLPPLVM LFVYARFVW ATRQLRLRG
 ELGRFPPEES PPAPSRSLAP APVGTCAPE GVPACGRRA RLPLPREHRA LCTGLINGT
 FTLCWLPPFL ANVLRALGGP SLVPGPAFLA LNWLYANSA ENPLIYCRSP DFRSAFRLL

106/448

58	692	Bombesin Receptor Subtype-3	NP_001718.1	MAQRPHSPN QTLISITNDT ESSSVVSNND NTNKGWSDN SPGIEALCAI YITYAVIISV P Homo sapiens	tacactactga ggaacaaagc catgcccgta agcagattga atccccaaag agaattgcca gaacgggtatt ggtgttggtg gctctgtttg cctctgtgtg gttgccaat cactcctgtg acctotacca ttcatcact tctcaaacct atgtagacc cctgccaat cattcattt tcaccatttt ctctcggtt ttggctttca gcaattcttg cgtaaacccc ttgtctctct actggctgag caaaagcttc cagaagcatt ttaaagctca gttgttctgt tgcaaggcgg agcggcctga gctctcgtt gctgacacct cctttaccac cctggcgttg atgggaacgg tccccggcac tgggagcata cagatgtctg aaattagtgt gacctcgttc actgggtgta gtgtgaagca ggcagaggac agattctagc ttttcaagga aaatgtgtgc ttctctctcc agcgtgtgta tccgactcta agctgtgtgc agg
59	729	CXC Chemokine Receptor 5	NM_001716	SLTLAVMGV VPGTGSIQMS EISVTSFTGC SVKQAE DRF Homo sapiens	gctggccacct ctctagaggc acctggcggg gagcctctca acataagaca gtgaccagtc A tggtgactca cagcggcgac agccatgaac taaccgctaa cgttgaaat ggacctcgag aaactggagg acctgttctg ggaactggac agattggaca actataacga cactccctg gtgaaaaac atctctgccc tggccacagac gggccctctca tggcctcctt caaggccgtg ttcgtgccc tggcctacag cctcatcttc ctctgggagc tgatcggaac cgtctcgtg ctggtgatcc tggagcggca cggcagaca cgcagttcca cggagacctt cctgttccac ctggccgtgg ccgacctcct gctgtcttc atcttgcct ttgccgtggc cgaaggctct gtgggctggg tccctgggac ctctctctgc aaactgtga ttgccctgca caaagtcaac ttctactgca gcagcctgct cctggcctgc atgcgctgg accgctacct ggcattgtc cacgcgctcc atgcctaccg ccacgcgcgc ctctctctca tccacatcac ctgtgggacc atctggctgg tgggtctcct ccttgccttg ccagagattc tcttcgcaa agtcagccaa ggccatcaca acaactcctt gccagttgc accttctcc aagagaacca agcagaaacg catgcctggt tcacctcccg attctctac catgtggcgg gattcctgct gccatgctg gtgatgggct ggtgctactg ggggtagtg cacaggttg gccaggccca cggcgccct cagcggcaga aggcagtcag ggtggccatc ctggtgacaa gcatcttctt cctctgctgg tcacctacc acatgctcat ctctctggac acctgggga ggtgaaggc cgtgacaaat acctgcaagc tgaatggctc tctccccgtg gccatcaca tgtgtgagt cctgggcctg gccactgct gcctcaaccc catgctctac actttcgccg gcgtgaagtt ccgcaagtac ctgtcgccgc tcctgacgaa gctgggctgt accggccctg cctccctgtg ccagctcttc cctagctggc gcaggagcag tctctctgag tcagagaatg ccacctctct caccagcttc taggtcccaag tgtccctttt tatgtctgct ttctctggg gcaggcagtg atgtggatg ctccttccaa caggagctgg gatctaagg gctcaccctg gctaaagtg tcttaggagt atcctcattt ggggtagcta gaggaaccaa cccccattc tagaacatcc ctgccagctc ttctgcccgc cctggggcta ggctggagcc caggagcgg aaagcagctc aaaggcacag tgaaggctgt ccttaccat ctgcacccc ctgggctgag agaacctcac gcacctccca

60	729	CXC Chemokine Receptor 5	NP_001707.1	<p> MNPPLTLEMD LENLEDLEWE LDRLDNYNDT SLVENHLCPA TEGPLMASFK AVFVPVAYS L P IFLLGVIGNV IVLVILERHR QTRSSTETFL FHLAVADLLL VFILPFAVAE GSVGWVLGTF LCKTVIALHK VNFYCSSL L ACIAVDRYLA IVHAVHAYRH RRLLSIHITC GTIWLVGFL ALPEILFAKV SQGHNNSLP RCTFSQENQA ETHAWFTSRF LYHVAGFLLP MLVMGWCYVG VVHRLRQQR RPQRQKAVRV AILVTSIFFL CWSPYHIVIF IDTLARKAV DNTCKLNGSL PVAITMCEFL GLAHCCCLNPM LYTFAGVKFR SDSLRLTLKL GCTGPASLCQ LFPSWRRSSL SESENATSLT TF ggcacgagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagag gtgaacgaga gggccctttgg ggcacaaactg ctgcccctc tgtactcctt ggtatttgtc attgccctgg ttggaacat cctggtgtgc ctggtccttg tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccctctt aagatccctct ctgggtttta ttacacaggc ttgtacagc tttttggga tgccatgtgt aagatccctct ctgggtttta ttacacaggc ttgtacagc agatcttttt catcatcctg ctgacgattg acaggtaacct ggccatcgtc cacgccgtgt ttgaccttgc ggcacggacc gtaccttttg gtgtcatcac cagcatcatc atttggggcc tggccatctt ggttccatg ccaggcttat acttttcaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcac aaagcctacg agagtggaaag ctgtttcagg </p>	Homo sapiens
61	735	C-C Chemokine Receptor 1	NM_001295	<p> ggcacgagcc cagaaacaaa gacttcacgg acaaaagtccc ttggaaccag agagaagccg A ggatggaaac tccaaacacc acagaggact atgacacgac cacagagttt gactatgggg atgcaactcc gtgccagag gtgaacgaga gggccctttgg ggcacaaactg ctgcccctc tgtactcctt ggtatttgtc attgccctgg ttggaacat cctggtgtgc ctggtccttg tgcaatacaa gaggctaaaa aacatgacca gcatctacct cctgaacctg gccatttctg acctgctctt cctgttcacg ctccctctt aagatccctct ctgggtttta ttacacaggc ttgtacagc tttttggga tgccatgtgt aagatccctct ctgggtttta ttacacaggc ttgtacagc agatcttttt catcatcctg ctgacgattg acaggtaacct ggccatcgtc cacgccgtgt ttgaccttgc ggcacggacc gtaccttttg gtgtcatcac cagcatcatc atttggggcc tggccatctt ggttccatg ccaggcttat acttttcaa gacccaatgg gaattcactc accacacctg cagccttcac ttctctcac aaagcctacg agagtggaaag ctgtttcagg </p>	Homo sapiens

62	735	C-C Chemokine Receptor 1	NP_001286.1	ctctgaaact gaacctcttt gggctggtat tgcctttgtt ggtcatgac atctgtaca caggattat aaagattctg ctaagacgac caaatgagaa gaaatccaa gctgtccgtt tgatttttgt catcatgac atcttttttc tcttttgac cccctacaa ttgactatac ttatttttgt ttccaagac ttccctgttc ccatgagtg cctacacgca ctgctgtgc aacccagtga acctggctgt gcaagtgaag gagtgatcg aggttccgga agtacctcg gagttgttc cacaggcgtg tctaagcctt cgttggtgag aggttccgga aggttccgga agtacctcg gagttgttc cacaggcgtg tgctgtgca cctggttaaa tggctccct tccctccgt ggcaggctg gagagggtca gctccacatc tccctccaca gggagcagt aactcttcg cctgccagg acactgagc agcagcctg aggaggccaa cccaaaataa gcaggcgtga cctgccagg agcatggagt cagagccact tgggatagag ctctccagc caggttctga ctctggcac agcatggagt aggtctctg ggttcagtc tttccatga agggaatga atgggtgacct ggggtctctg aggtctctg agcaaaacca aatattccag agactggac actctcccc tggtagaaag agatgaatg agcaaaacca aatattccag agactggac taagtgtacc agagaaggc ttggactcaa gcaagatttc agatttgtga ccattagcat ttgtcaacaa agtcacccac ttccactat tcttgacaa aaccaattaa acccagtagt ggtgactgt ggtccattc aaagtgact cctaagccat gggagacact gatgtatgag gaattctgt tcttccatca cctcccccc cccgccacc tccactgcc aagaacttgg aaatagtgat ttccacagt actccactt ggtccacga gcaaatcagt agccagcact tgctccccct tcaactccac cgcaggattt gggctcttgg aatcctggg aacatagaac tcatgacgga agagttgaga cctaacgaga aatagaattt ggggaactac tgcctggcagt ggaactaaga agcccttag gaagaattt tatatccact aaaaataaac aattcaggga gtgggctaag caggggacct atgaataaca tgggtgtgctt cttaaaaatag cctaaaaggg gaggactca tcaattccat ttaccctct tcttgacta ttttcagaa tctctctct tttcaagttg ggtgatagt tggtagattc taatggctt attgacgca ttaataacag gcaaaaggaa gcagggttg tttccctct ccatcttga cttgcagca aaaaaaaa aaaaa atgggtcaga gttccgactg ccatcttga atpckvner afgaqlppl yslfviglv gnilvvlvlv p METPNTTEDY DTTTEFDYGD ATPCQKNER AFQAQLPPL IDYKLDDWV FGDAMCKILS GFYTGLYSE QYKRLKNMTS IYLLNLAISD LLFLTLFW ALRARTVTFG VITSIIIAL AILASMPGLY FSKTQWETH IFFILLTID RYLAIVHAVF ALRARTVTFG VITSIIIAL AILASMPGLY FSKTQWETH HTCSILHPHE SLREWKLFQA LKLNLFGLVL PLVMIICYT GIKILLRRP NEKSKAVRL IFVIMIIFFL FWTPYNLTIL ISVFQDFLFT HECEQSRHLD LAVQVTEVIA YTHCCVNPVI YAEVGERFRK YLRQLFHRV AVHLVWLPF LSVDRLEVS STSPSTGEHE LSAGF ttttctctt tctatcacag ggagaagtga aatgacaacc tcaatagata cagttgagac A ctttggtacc acatccact atgatgacgt gggcctgctc tgtgaaaaag ctgataccag agcactgat gcccagtttg tgcctccgt gtaactccgt gtgttccact tggcctctt gggcaatgt gtgggtggtga tgatccctcat aaaaacaggg aggtctccgaa ttatgacaa catctacctg ctcaaccttg ccatctcga cctgctctc ctcgtcacc ttccattctg gatccactat gtcagggggc ataactgggt ttttgacctt ggcattgtga agtcccttc agggttttat cacacaggct tgcacagcga gatcttttc ataactcctg tgacaatcga caggtacctg gccattgtcc atgctgtgtt tgcctctcga gcccgagact tcacttttg tgtcatcacc agcatcgtca cctggggcct ggcagtgcta gcagctcttc ctgaatttat cttctatgag actgaagagt tgtttgaaga gactcttgc agtctcttt acccagagga	Homo sapiens
63	737	C-C Chemokine Receptor 3	NM_001837	cttctatgag actgaagagt tgtttgaaga gactcttgc agtctcttt acccagagga	Homo sapiens

[illegible]

66	738	C-C Chemokine Receptor 4	NP_005499.1	gtccagcctg gcaagggttc acctgggctg aggcatacctt cctcacacca ggcttgctg caggcatgag tcagctctgat gagaactctg agcagtgctt gaatgaagt gtagtaata ttgcaaggca agactattc ccttctaacc tgaactgatg ggtttctcca gaggaattg cagagtactg gctgatggag taaactgcta ccttttgctg tggcaaatgg gccccc VLVLFKYKRL RSMTDVYLIN LAISDLLFVF SLPFWGYAA DQWVFLGLC KMISWYLVG FYSGLFFVML MSIDRYLAIV HAVFSLRART LTYGVITSLA TWSVAVFASL PGFLFSTCYT ERNHTYCKTK YSLNSTTWKV LSSLEINILG LVIPLGIMLF CYSMIIRTLQ HCKNEKNKA VVMIFAVVL FLGFWTPYNI VLFLETIVEL EVLQDCTFER YLDYAIQATE TLAFVHCCLN PIIYFFLGEK FRKYILQLEK TCRGLFVLCQ YCGLLQIYSA DTPSSSYTQS TMDHDLHDAL	Homo sapiens
67	741	C-C Chemokine Receptor 7	NM_001838	gtgagacagg ggtagtgcga ggcggggcac agccttctctg tgtggtttta ccgcccagag A agcgtcatgg acctggggaa accaatgaaa agcgtgctgg tgggtgctct ccttgctcatt ttccaggat gctgtgtgca agatgaggtc acgagcatt acatcgaga caacaccaca gtggactaca ctttgttga gtctttgtgc tccaagaagg acgtgcggaa ctttaagcc tggttctctc ctatcatgta tctcatcatt tgtttctggt gcctactggg caatgggctg gtcgtgttga cctatatcta ttccaagagg ctcaagacca tgaccgatac ctacctgtc aacctggcgg tggcagacat cctcttctc ctgacccttc ccttctgggc ctacagcgcg gccaaagtcct gggctcttgg tgtccacttt tgcaagctca tctttgcat ctacaagatg agcttcttca gtggcatgct cctactctt tgcatcagca ttgaccgcta cgtggccatc gtccaggctg tctcagctca ccgccaccgt gccgcgttc ttctcatcag caaagctgtcc tgtgtgggca tctggatact agccacagtg ctctccatcc cagagctcct gtacagtgc ctccagagga gcagcagtga gcaagcagtg cgtgctctc tcatcacaga gcatgtggag gcctttatca ccatccaggt gccccagatg gtgactgggt ttctggtccc cctgctggcc atgagcttct gttaacctgt ccatccctg accctgtcc aggcacgcaa ctttgagcgc aacaaggcca tcaagtgat categtgtg gtcgtgtgt tcatagtctt ccagctgccc tacaatggg tggctctggc ccagacgggt gccaaactca acatcacag tagcactgt gagctcagta agcaactcaa catgcctac gactcacct acagcctggc ctgctccgc tgtctcgtca acccttctt gtaagccttc atcggtcga agttccgcaa cgtctcttc aagctcttca aggacctggg ctgcctcag caggagcag tccggcagt gtcttctgt cggcacatcc ggcgtctctc catgagtgt gagggcaga ccaccaccac cttctccca taggcgactc ttctgctgg actagaggga cctctcccag ggtccctggg gtgggtag ggagcagatg caatgactca ggacatccc ccgccaaaag ctgctcaggg aaaagcagct ctccctcag agtgcaagcc ctgctccaga agttagctt acccaatcc cagtaacct aaccaatgcc gaaaagaca gggtgataa gctaaccaca gacagacaac actgggaaac agaggctatt gtccctaaa ccaaaaactg aaagtgaag tccagaaact gttccacct gctggagtga aggggccaag gaggtgagt gcaagggggt tggagtggtc ctgaagagtc ctctgaatga accttctggc ctccacaga ctcaaatgt cagaccagt cttccgaaa ccaggcctta tctccaagc cagagatagt gggagagctt cttggcttgg tgaggaagaa cggacatcag ctggtaaac aaactctctg aacctctcc tccatcgttt tcttactgt cctccaaagg agcgggaatg gcagctgcca cgcggcccta aaagcacat catccctca cttgccgct cgccctccca ggctctcaac aggggagagt gtggtgtttc ctgcaggcca	Homo sapiens

68	741	C-C Chemokine Receptor 7	NP_001829.1	<p>gcccagctgc ctccgcgtga tcaaaagccac actctgggct ccagagtggg gatgacatgc actcagctct tggctccact gggatgggag gagaggacaa gggaaatgtc agggcgggg aggggtgacag tggcgcccca aggcacagag ctgtgtcttt gttctttgtc acaggactg aaacctctc tctatgttct gcttcgatt cgttaagaga gcaacatttt acccacacac agataaagtt tccccttgag gaaacaacag ctttaaaag</p> <p>MDLGKPMKSV LVVALLVIFQ VCLQDEVD TYDGNLTVD YTLFESLCSK KDVRFKAWF P LPIMYSIICE VGLLGNGLV LTYIYFKRLK TMTDNTLLN AVADILFLT LPFWAYSAAK SWVFGVHFCK LIFAIYKMSF FSGMELLICI SIDRYVAIVQ AVSAHRHRAR VLLISKLSV GIWILATVLS IPELLYSDIQ RSSSEQAMRC SLITEHVEAF ITIQVAQWVI FLLVPLLLAMS FCYLVIIRTL LQARNFERNK AIKVIIAVW VFIVFQLPYN GVLAQTIVAN FNITSSTCEL SKQLNIAYDV TYSIACVRCC VNPFLYAFIG VKERNDLFKL FKDLGCLSQE QLRQWSSCRH IRSSMSVEA ETTTFSP</p>	Homo sapiens
69	742	C-C Chemokine Receptor 8	AI733823	<p>TTTAAATTTA AAAACTTTAT TGGAAATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAAATGATG CTGACCTCCT TATATATGTA AAAATATATC TTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT TGTTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAAGGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAATAT ACGTGATGGG CTTCTTGAAG GACTAGACGA GTGTGTATTC AAACAGAAC AAGAAATCAC GTCAAGTTTAT</p> <p>LG6770</p> <p>TGCCAAATAT GCTGTTGCCA ACACATTAGAA CACAATGACT GGAGACACAG TTGTGCGTGC A CTGGCACAAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAAGA ATATTTTAAC ATCATTAAAG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATTA ATGACACAGT GAAAA</p> <p>NM_005201</p> <p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaaggctgtc actaaggctc cgctgccttg atggattata cacttgacct cagtgtgaca acagtgaccg actactata cctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagctct ctgggaaaca gcctggtcat cctggtcctt gtggctgca agaagctgag gacatcacca gatgtatacc tcttgaaacct ggcctgtctt gacctgcttt ttgtctctc cttccctttt cagacctact atctgctgga ceagtgggtg tttggggactg taatgtgcaa agtgggtgtct ggctttttt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgttgtcca tgcctgtgat gccctaaagg tgaggacgat caggatgggc acaacgtgtt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens
70	742	C-C Chemokine Receptor 8	LG6770	<p>TTTAAATTTA AAAACTTTAT TGGAAATAGCA TGTTAGCAGC AGTGAACAGG GCATGGCACA A GAAGGTTTCC AAAACAAGTT TAGCATGAAG GATGCCATAT GCTGTTGCCA ACAACTAGAA CACGGTGACT AAAGACACAG TTCTGAATGT CCAGCACAAAC CTCTGGCCTG CAACTATGTT CAGTGATGAT GATAACAAG GTGGTGACTT GGAAGGAATC CCTATGTCAA GTGAGAAAAA AAAAATGATG CTGACCTCCT TATATATGTA AAAATATATC TTTCAGAGTC CGTCAGTAAG CTGGAAGAAG TGGATGTTGA AGTTTTTAAC ATCGATGATG GGTCTCCAGT TGTTTCATCAA CCCATGGTGA AATAGCTGAA CGGTTCTGAA TCAAAGGTGA TCCTAATAGT GAAGACATTA ACATTGCAGA AAAAGTGCCT ACAGATTATA TGGTGAATAT ACGTGATGGG CTTCTTGAAG GACTAGACGA GTGTGTATTC AAACAGAAC AAGAAATCAC GTCAAGTTTAT</p> <p>LG6770</p> <p>TGCCAAATAT GCTGTTGCCA ACACATTAGAA CACAATGACT GGAGACACAG TTGTGCGTGC A CTGGCACAAAC CTCCAGCCTG TGCTATGTT CAGTGATGAT GATGAGCAAG GTGGTGACTT TGAAGGATTT TGTATATCAA GTGAAAAAGAA ATGATATCTG ACCTCCTTAC ATATCTAAAA CATATACCTT CAAAATCCAT CAATAAGCTG AAAGAAATAG ATATCAAAGA ATATTTTAAC ATCATTAAAG AGGCTCCAGT TATTCATTCA TTGACCAATG GTAATATAGC TGAATGATT CTGAATCAAG CTGATTATGA TAATAGTGAT GATGAAGATG ATGTTAATAC TGCAGAAAAA GTGCCTATTA ATGACACAGT GAAAA</p> <p>NM_005201</p> <p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaaggctgtc actaaggctc cgctgccttg atggattata cacttgacct cagtgtgaca acagtgaccg actactata cctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagctct ctgggaaaca gcctggtcat cctggtcctt gtggctgca agaagctgag gacatcacca gatgtatacc tcttgaaacct ggcctgtctt gacctgcttt ttgtctctc cttccctttt cagacctact atctgctgga ceagtgggtg tttggggactg taatgtgcaa agtgggtgtct ggctttttt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgttgtcca tgcctgtgat gccctaaagg tgaggacgat caggatgggc acaacgtgtt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens
71	742	C-C Chemokine Receptor 8	NM_005201	<p>ctccagagag gctgctgctc attgagctgc actcacatga ggatacagac tttgtgaaga A aggaattggc aacactgaaa cctccagaac aaaggctgtc actaaggctc cgctgccttg atggattata cacttgacct cagtgtgaca acagtgaccg actactata cctgatatc ttctcaagcc cctgtgatgc ggaacttatt cagacaaatg gcaagttgct ccttgctgtc ttttattgcc tctgtttgt attcagctct ctgggaaaca gcctggtcat cctggtcctt gtggctgca agaagctgag gacatcacca gatgtatacc tcttgaaacct ggcctgtctt gacctgcttt ttgtctctc cttccctttt cagacctact atctgctgga ceagtgggtg tttggggactg taatgtgcaa agtgggtgtct ggctttttt acattggctt ctacagcagc atgtttttca tcacctcat gagtgtggac aggtacctgg ctgttgtcca tgcctgtgat gccctaaagg tgaggacgat caggatgggc acaacgtgtt gcctggcagt atggctaacc gccattatgg ctaccatccc attgctagt ttttaccagg tggcctctga agatggtgtt ctacagtgtt attcatttta caatcaacag actttgaagt ggaagatctt caccacttc aaaatgaaca ttttaggctt gttgatccca ttcaccatct ttatgttctg ctacattaaa</p>	Homo sapiens

72	742	C-C Chemokine Receptor 8	NP_005192.1	MDVTLDLSVT TVTDYYYPDI FSSPCDAELI QTNKLLLLAV FYCLLFVPSL LGNSLVILVL P VVCKKLRISIT DVYLLNLALS DLLFVFSFPF QTVYLLDQWV FGTVMCKVVS GFYYIGFYSS MFFITLMSVD RYLAVVHAVY ALKVRTRMG TTLCLAVLWT AIMATIPLLV FYQVASEDGV LQCYSFYNQO TLKWKIFTNF KMNILGLLIP FTIFMFCYIK ILHQLKRCQN HNKTKAIRLV LIVVIASLLF WPFNVVLFL TSLHSMHILD GCSISQQLTY ATHVTEIISF THCCVNPVIY AFVGEKFKKH LSEIFQKSCS QIFNVIGRQM PRESEKSSS CQHSRSSSS VDYIL	Homo sapiens
73	752	CXC Chemokine Receptor 3	NM_001504	ccaaccacaa gcaccaaagc agaggggagc gcagcacacc accagcagc cagagcacca A gccagcccat ggtccttgag gtgagtgacc accaagtgt aatgacgcc gaggtgccc ccctcctgga gaacttcagc tcttctatg actatggaga aaacgagagt gactcgtgt gtacctccc gccctgccc caggacttca gctggggc cgcacggcc ttcctgccag ccctctacag cctcctcttt ctgctggggc cgtgggcaa cggcgcggtg gcagccgtgc tgttgagccg gcggacagcc ctgagcagca cgcacacctt cctgctccac ctagtgtag cagacacgct gctggtgctg acactgccg cctgggagc gacgctgcc gtccagtggtg tctttggctc tggcctctgc aaagtggcag gtgcctctt caacatcaac ttctacgcag	Homo sapiens

atcctgcacc agctgaagag gtgtcaaaac cacaacaaga ccaaggccat caggttggtg
ctcattgtgg tcattgcac tttacttttc tgggtcccat tcaacgtggt tcttttctc
acttcttgc acagtatgca catcttgat gtagtgagca taagccaaca gctgacttat
gccaccatg tcacagaaat catttcttt actcactgt gtgtgaaccc tgttatctat
gcttttgtg gggagaagt caagaaacac ctctcagaaa tattcagaa agttgcagc
caaacttca actacctaag agacaaatg cctaggaga gctgtgaaa gtcacatcc
tgccagcagc actcctccc tctctcagc gttagctaca tttgtgag atcaatgaag
actaaatata aaaaacattt tcttgaatgg catgtatga cagtgagca aggtgtggg
tgtgaaagt ttccaaaaa agttcagcat gaagatgcc atatatgtg ttgccaacac
ttaaacaca atgactggag acatagttgt aacaagtgt aactttaa gattctgtat gccaaagtga
tgtgtttatt gatgatgtg acaagtgtg ccatgatgc aaaaataac ctccagagac tgcagtagg
aaaaaagat gctgaccc ctccatagc aaaaataac tcaatgata ggtccagtt gctatgcat
ctggagaag tggatatga agtttgaca tcaatgata ggtccagtt gctatgcat
tgactgatg tgaatggct ggagtgttc tgaatcaagg tgattgtgt tatagtaca
atgaagatga tgcattaat actgcataaa agtgcctgt agatgacatg gtgaaatat
ttgacaggct tatggaagga ctacagcagc acgcattcat aacagaacaa gaaattatct
cagcttataa aatcaaacag agactctag acaaaaacca ttgttgata ggcagatgcc
tctagaagag acgtttaaaa gccatcaaac caatgcctc atcttccctg gaggaccac
ttcctgatcc ctcaactgt tctgatgtt tctctcatg aagaaataa aataaaaaat
aaaaaatat atattggtat gtaactacag gaaaaata aaaaatatat agtgacagt
aacctttcaa tcaaaactca gtatcataag tagagactga aaacttgccg ttattgatg
ttgttattaa cagctgatac aggtattctg ctgatgctac tgcgctag ttaccatgaa
caggtttttt cactattaat ggtgcgtcat atttttact ttaaagtact tacgtgtgag
taagtgaag aaaaatgattg ctatcagta gtatcaatga tttactcaat atctgaatca
ccttgattca gaaccatttc agctgtttca ccatcagta atgaataaca gcctcattga
tgtcaaaaac ttcaatacc acttctttca gctactgta gactctggaa gtatactttt
tgcatatgta aggaagtcat atttttttt

74	CXC Chemokine Receptor 3	NP_001495.1	<p>gagccctcct gctggcctgc atcagctttt accgtacct gaacatagtt catgccaccc agctctaccg cggggggccc cggcccgcg tgacctcac ctgcttggt gtctggggg tctgctgct ttctgccc cagacttca tcttctgtc gggccaccac gacgagcgc tcaacgccac ccaactgcaa tacaacttc cacaggtgg cgccacggct ctgcggtgc tgacgtggt gctggcttt ctgtgccc tctgtgtcat ggcctactgc tatgccaca tctggccgt gctgctggt tccaggggc agcgggcct cggggccat cggtggtgg tgggtgctgt ggtggccttt gccctctgt ggaaccccta tcacctggt gtgctggtgg acatctcat ggacctggc gctttggcc gaaactgtg ccgagaaagc aggtagacg tggccaagtc ggtcacctca ggcctgggt acatgacct ctgctcaac ccgtgctct atgctttgt aggggtcaag ttccgggagc ggaatgtgat gctgctctg cgcctgggt gccccacca gagagggtc cagaggcagc catcgtctc cggccgggt tcctctggt ctgagacctc agaggctcc tactcggtc tctgagcgc gaatccggc tccccctgc ccacagctc gactccccc cattccaggc tctccctcc ctctgccc tctgctctc cccaatatc tgcctcccg gactcactgg cagcccccag accaccagt ctcccggaa gcccacctc cagctctgag gactgcacca ttgctgctc ttagctgcca agccccatc tgccgcccga ggtggtgctc tggagcccca ctgcccctc catttgaaa ctaaaactc atcttcccc agtgcgggga gtacaaggca tggcgtagag ggtgctgccc catgaagcca cagccaggc ctccagctca cagtgactg tggccatggt ccccaagacc tctatatgt ctctttatt ttatgtcta aaatcctgct taaaacttt caataaaca gatcgtcagg acaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaaaa MVLEVDHQV LNDAEVALL ENFSSYDYG ENESDSCCTS PFCQDFSLN FDFRFLPALY P SLFLGLLG NGAAVAVLLS RRTALSTDT FLHLAVADT LVLTLPLWA VDAVQWVFG SGLCKVAGAL FNINFYAGAL LLACISFDY LNIVHATQLY RRGPPARVTL TCLAVWGLCL LFALPDFIFL SAHDERLNA THCQYNFPQV GRPALRLVLQ VAGFLPLLV MAYCYAHILA VLLVSRGQRR IRAMRLVVV VVAFALCWTP YHLVVLVDIL MDLGALARNC GRESRVDVAK SVTSLGYMH CCLNPLLYAF VGKFRERMW MLLRLGCPN QRGLQRQPSS SRRDSSWSET SEASYSGL</p>	Homo sapiens
75	CXC Chemokine Receptor 4	NM_003467	<p>gtttgttggc tgcggcagca ggtagcaaa ggcgcgcag ggcctgagt ctcacgtagc A caccgcatc ggagaaccag cggttaccat ggaggggac agtatataa cttcagataa ctacaccgag gaaatgggt caggggacta tgactccat aggaacct gttccgtga agaaaaatgct aatttcaata aaatctctc gccaccatc tactccatca tcttctaac tggcattgtg ggaatggat tggctatcct ggtcatggt taccagaaga aactgagaag catgacggac aagtacaggc tgcacctgtc agtgccgac ctctctttt tcatcagct tcccttctgg gcagttgat cctgggcaa ctggtacttt ggaacttcc tatgcaaggc agtccatgtc atctacacag tcaacctcta cagcagtgc ctcatcctgg ccttcacag tctggaccgc tacctggcca tctgtcacgc caccacagc cagaggccaa ggaagtgtt ggctgaaaa gttggtctatg ttggcgtctg gatccctgc ctctgtctga ctattcccga cttcatcttt gccaacgtca gtgaggcaga tgacagatat atctgtgacc gttctaccc caatgacttg tgggtggttg tgttccagtt tcagcacat atggttgccc ttactctgcc tggattgtc atcctgtct gctattgcat tatcatctc aagctgtcac actccaaggg ccaccagaag cgcaaggccc tcaagaccac agtcatctc atcctgctt tcttcgctg</p>	Homo sapiens

76	CXC Chemokine Receptor 4	NP_003458.1	<p> ttggtgctt tactacattg ggatcagcat cgactccttc atcctcctgg aaatcatcaa gaaagggtg ggtttgaga acactgtgca caagtggatt tccatcacgc aggccttagc ttcttccac tgtgtgtctga acccattcct ctatgttttc ctbgagcca aatttaaac ctctgccag cagcactca cctctgtgag cagagggtcc agoctcaaga tccctccaa aggaagcga ggtggacatt catctgttcc cactgagtct gactcttcaa gtttccatc cagctaacac agatgtaaaa gacttttttt tatacgataa ataacttttt ttttaagttac acatttttca gatataaaa actgaccaat attgtacagt ttttattgct tgttggattt ttgtcttctg tttcttttagt ttttctgaag ttttaattgac ttatttatat aaattttttt tgtttcatat tgatgtgtgt ctaggcagga ccttggcca agttctttagt tgctgtatgt ctctggtag gactgtgtaa aagggaactg aacattccag agcgtgtagt gaatcacgta aagctagaaa tgatcccccag ctgtttatgc atagataatc tctccattcc cgtggaacgt ttttctgtt ctttaagacgt gattttgtctg tagaagatgg cacttataac caaagcccaa agtggatatag aaatgctggt ttttcagttt tcaggagtgg gttgatttca gcacctacag tgtacagtct tgtattaaagt tgttaataaa agtacctgtt aaacttactt agtgttatg tgtacagtct NYTEEMSGD YDSMKPCFR EENANFNKIF LPTIYSIIFL TGIVNGGLVI P LVMGYQKKLR SMTDKYRLHL SVADLLFVIT LPFWAADA VA NWYFGNFKL AVHVIYTVNL YSSVLILAFI SLDRYLAI VH ATNSQRPRKL LAEKVVYVGV WIPALLLTIP DFIFANVSEA DDRIYCDREY PNDLWVVFQ FQHMVGLIL PGIVILSCYC IISKLSHSK GHQKRKALKT TVILILAFEA CWLPYYIGIS IDSFILLEII KQCEFEFTV HWISITEAL AFFHCLNPI LYAFILGAKFK TSAQHALLTSV SRGSSLLKILS KGRKGHSSV STESESSFH SS </p>	Homo sapiens
77	Complement Component 3a Receptor 1	NM_004054	<p> atggggctct tctctgctga gaccaattca actgacctt tctcacagcc atggaatgag A cccacagtaa ttctctccat ggtcattctc agccttactt ttttactggg attgccagcc aatgggctgg tgcgtgggt ggctggcctg aagatgcagc ggacagtga cacaattgg ttctccacc tcaacttggc ggacctctc tgcgtcctct ccttgccctt ctgctggct cacttggctc tccagggaca gtggccctac ggcagggttc tatgcaagct catccctcc atcattgtcc tcaacatgtt tgccagtgtc ttctctgcta ctgccattag cctggatcgc tgtcttggg tattcaagcc aatctgggtg cagaatcatc gcaatgtagg gatggcctgc tctatctgtg gatgtatctg ggtgggtggt ttgtgtatgt gcatcctctt gttcgtgtac cgggaaatct tcaactacga caaccataat agatgtggct acaaatggg tctctccagc tcattagatt atccagactt ttatggagat ccactagaaa acaggctctt tgaatacatt gttcagccgc ctggagaaat gaatgatagg ttagatcctt cctctttcca acaaatgat catccttga cagtcccccac tgtcttccaa cctcaaacat ttcaagacc ttctcgagat tcactcccta ggggttctgc taggttaaca agtcaaaaatc tgtattctaa tgtatttaaa cctgctgatg tgggtctacc taaaatcccc agtgggttcc ctattgaaga tcacgaaccc agccactgg ataaactctga tgcctttctc tctactcatt taaagctgtt ccttagcgt tctagcaatt ccttctacga gtctgagcta ccacaaggtt tccaggatta ttacaattta ggccaattca cagatgacga tcaagtggca acaccctcg tggcaataac gatcactagg ctagtgtggt gtttctctgct gccctctgtt atcatgatag cctgtttacag cttcattgtc ttccgaatgc aaaggggccg cttcgccaaag tctcagagca aaacctttcg agtggccgtg gtgggtggtg ctgtctttct tgtctgttgg tctccatacc acatttttgg agtctgtca ttgttactg acccagaaac tcccttgggg aaaaactcta tgcctggga tcatgtatgc </p>	Homo sapiens

78	755	Complement Component 3a Receptor 1	NP_004045.1	actgtgtga atgtctctag catctgcaa tagttgcttt aatcccttcc tttatgcct cttggggaaa gatttttaga agaaagcaag gcagtcatt caggaattc tggaggcagc cttcagtgag gagctcacac gttccacca ctgtccctca acaatgtca tttcagaaa aatatagta actgtgtga MASFSAETNS TDLSQPWNE PPVILSMVIL SLTFLGLPG NGLVLWVAGL KMQRTVNTIW P FLHLTLADLL CCISLPFSLA HIALQGWPY GRFLCKLIPS IIVLNMEFASV FLLTAISLDR CLVVEKPIWC QHNRNVGMAC SICGCIWVVA FVMCIPFVY REIFTTDNHN RCGYKFGLS SLDYPDFYGD PLENRSLENI VQPPGEMNDR LDPSSFQTHD HPWTVPTVFQ PQTQRP SAD SLPRGSARLT SQNLYSNVFK PADVSPKIP SGFPEDHET SPLDNSDAFL STLKLFPSA SSNSFYSEL PQGFQDYNNL GQFTDDQVP TPLVAITITR IIVGFLPSV IMIACYSFIV FRMQGRFAK SQSKTRFVAV VVAVFLVCW TPYHIFGLS LTDPETPLG KTLMSWDHVC IALASANS CF NFELYALLGK DERKKARQSI QGILEAAFSE ELTRSTHCPN NNVISERNST TV	Homo sapiens
79	758	Complement Component 5a Receptor 1	NM_001736	agggggagcc caggagacca gaacatgaac tccttcaatt ataccacccc tgattatggg A cactatgatg acaaggatac cctggacctc aacacccctg tggataaaac ttctaacacg ctgctgtgtc cagacatcct ggccttggtc atctttgcag tgccttccct ggtgggagtg ctgggcaatg cctgtgtggt ctgggtgacg gcattcgagg ccaagcggac catcaatgcc atctgtgtcc tcaacttggc ggtagccgac ttccttccct gcttgccgt gccatcttg ttcacgtcca ttgtacagca tcaccactgg ccctttggcg gggccgcctg cagcatcctg ccctccctca tcctgtctca catgtacgcc agcatcctgc tcctggccac catcagcgc gaccgtttc tctgtgtgtt taaacccatc tgggtccaga acttccgagg ggcgggcttg gcttgatcg cctgtgcctg ggttggggt tttagcctgc tgcagaccat accctcttc ctgtaccggg tgggtccggg ggaactctt ccacaaaagg tgtgtgtg cgtggactac agccacgaca aacggcggg gcgagccgtg gccatcgtcc ggtggttcc tgccttccctg tggcctctac tcacgtctac gatttgttac actttcatcc tgctccggac gtggagccgc agggccacgc ggtccacca gacactcaag gtgtgtgtg cagtgtgtgc cagtttctt atcttctggt tgcctacca ggtgacggg ataactgatg ccttccctga gccatctca ccaccttcc tgcgtctgaa taagctggac tcctgtgtg tctcctttgc ctacatcaac tgcgtcatca acccatcat ctacgtgtg gcggccagg gcttccagg cagactgcgg aaatccctcc ccagcctcct ccggaacgtg ttgactgaag agtccgtggt tagggagagc aagtcattca cgcgtccac agtggaact atggccaga agaccaggc agttaggagc acagcctcat gggccactgt ggcccgatgt ccccttccct ccggccatt ctccctctg tttccacttc acttttctg gtaggtgtgt acctagcta actaaactc ctccatgttg cctgtcttcc ccagacttgt cctctcttcc ccaggggac tcttctcat ctctctcat tgcaaggaga acacttctct ctaggaggca cctctccacc cccaccccc cccacacac catcttcca tccaggctt ttgaaaaaca aacagaaacc cgtgtatctg gatatctcc atatggcaat aggtgtgaac agggaaactca gaatacacag aagtagaaa attctcgctt aaaaaatgt atttattta tggcaagtgt gaaaatagt aactggaatc tcaaaagttc tttgggacaa aacagaagtc catggagtta tctaagctct tgtaagttag taaatttaa aaagaaaaat aggtgagag cagtggctca cgcctgtaat ccagaaact tgggaggcta aggtgggtgg atcacctgag gtcaagagtt ccagaccagg ctggccagca tgggtgaaac	Homo sapiens

116/448

80	758	Complement Component 5a Receptor 1	NP_001727.1	<p>ccgtctgtac taataataca aaaaataaac tgggcatggt agtgggtgcc tgtaatccca</p> <p>gctacttggg aggtgaggt gggagaattg ctogaacctt ggaggtggag gttgtgtga</p> <p>gccatgatcg caccactgca ctctagctg ggtgaccgag ggaggtcttg tctcaaaagc</p> <p>aaagcaaaaa caaaaaaaca aacacotaaa aaacctgcag tttgtttgtt actttgtttt</p> <p>taattatgc tttctatttt tggtaccctt tcaccagcc tcccctaatg acaattgtaa gtaatgatac</p> <p>agagggatct tgtgtaccct caccagcc atattgacat tgatacagtg aagatacagg acattctcat</p> <p>aatgtagtct cataaccagg atccccagg tgcaccttc cctccacctt cacacctcag ccgtgtccct</p> <p>caccacagg atccccagg tgcaccttc cctccacctt cctccacctt caagaatggt</p> <p>aacctctggc aaccaggat atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga</p> <p>attcaatgga atcatatagt atgtaacctg ttttgagctt aaaaaaaaaa gtatacatga</p> <p>ctttaatgag gaaaataaaa atgaatattg aaaaaaaa ctttagag</p> <p>MNSFNYYTPD YGHYDDKDTL DLNTPVDKTS NTLRVPDILA LVIFAVVFLV GVLGNALVWV P</p> <p>VTAFEAARTI NAIWFLNLAV ADFLSCLALP ILFTSIVQHH HWPFGGAACS ILPSLILLNM</p> <p>YASILLATI SADREFLIVFK PIWCQNFRA GLAWIACAVA WGLALLITIP SFLYRVVREE</p> <p>YFPKVLGCV DYSHDKRRER AVAIVRLVLG FLWPLLTITI CYTFILLRTW SRRATRSTKT</p> <p>LKVVAVVAS FFIFWLPYQV TGIIMSFLEP SSPTFLLLNK LDSLCVSFAY INCCINPIIY</p> <p>VVAGQGFQGR LRKSLPSLLR NVLTESVVR ESKSFTSTV DTMQKTQAV</p>	Homo sapiens
81	767	Calcitonin Receptor- like Receptor	NM_005795	<p>gcacgaggga acaacctctc tctctcagc agagagtgtc acctctgctt ttaggacctt</p> <p>caagctctgc taactgaatc tcatctaat tgcagagatca ccttgcaaaag ctttcaactct</p> <p>ttcccacctt gcttgtgggt aaatctcttc tgcggaatct cagaaagtaa agttccatcc</p> <p>tgagaatatt tcacaaagaa tttccttaag agctggagctt ggtcttgacc cctggaattt</p> <p>aagaaattct taaagacaat gtcaaatatg atccaagaga aaatgtgatt tgagtctgga</p> <p>gacaatttg catatgtctt aataataaaa acccatacta gcctatagaa acaatatatt</p> <p>gaataataaa aaccataact agcctataga aacaataatt tgaagaattg ctaccactaa</p> <p>aaagaaaact actacaactt gacaagactg ctgcaaaact caattgttca ccacaacttg</p> <p>acaagggtgc tataaaacaa gattgttaca acttctagtt tatgtttatc agcatatttc</p> <p>atttgggctt aatgatggag aaaaagtga cctgtattt tctgggtctc ttgctttttt</p> <p>ttatgattct tgttacagca aaaaagtga cctgtattt tctgggtctc ttgctttttt</p> <p>ttactagaaa taaaatcatg gaattagaag agagtccctga ggactcaatt cagtggggag</p> <p>ccattcaaca agcagaaggc gtttactgca acagaacctg ggatggatgg cttctgtgga</p> <p>acgatgttgc agcaggactt gaatcaatgc agctctgccc tgattacttt caggactttg</p> <p>atccatcaga aaaagtaca aagatctgtg accaagatgg aaactgggtt agacatccag</p> <p>caagcaacag aacatggaca aattatcccc agtgtaatgt taacacctac gagaagatga</p> <p>agactgcact aaatttgttt tacttgacca taattggaca cggattgtct attgcatcac</p> <p>tgcttatctc gcttggcata ttcttttatt tcaagagcct aagttgcca aggattacct</p> <p>tacacaaaaa tctgttcttc tcatttgttt gtaactctgt tgtaacaatc attcacctca</p> <p>ctgcagtggc caacaaccag gccttagtag ccacaaatcc tgtagttgc aaagtgtccc</p> <p>agttcattca tctttaactg atgggctgta attacttttg gatgctctgt gaaggcattt</p> <p>acctacacac actcattgtg gtggccgtgt ttgcagagaa gcaacattta atgtgggtatt</p> <p>attttcttgg ctggggattt ccactgattc ctgcttgat acatgcattt gtagaagct</p> <p>tatattacaa tgacaattgc tggatcagtt ctgtatccca tctctctac attatccatg</p>	Homo sapiens

82	767	Calcitonin Receptor- like Receptor	NP_005786.1	MEKKTLYFL VLLPFFMLV EGVYCNRTWD GWLCWNDVAA WTNYTQCNVN THEKVKTALN FFSFVCNSVV TIHLTAVAN IVVAVFAEKQ HLMWYFLGW ALLVNLFFLL NIVRVLITKL AEEVYDYIMH ILMHFQGLLV YTVSTISDGP GYSHDCPSEH ggggactacg gagagctctg tcccaggagc caggggatgc gagctcagcc taatcaaaga caccttcgc accatcacca agacatcaaa ggtgacatgg ttcctttagg ggaagtcctc	ctggtgaatc tttttttctt gttaaatatt gtacgcgttc tcatcaccaa gttaaaaagt acacaccaag cgaatccaa tctgtacatg aaagctgtga gagctactct tatcttggtg ccattgcttg gcattgaatt tgtgctgatt ccatggcgac ctgaaggaaa gattgcagag gaggtatatg actacatcat gcaatccct atgcacttcc agggtctttt ggtctctacc atttctgct tctttaatgg agaggttcaa gcaattctga gaagaaactg gaatcaaatc aaatccaat ttggaacacg ctttccaac tcagaagctc ttcgtagtcg gtcttacaca gtgtcaaca ttagtgatgg tccaggttat agtcatgact gtcctagtcg acacttaaat ggaataagca tccatgatat tgaataatgtt ctttaaaac cagaaaaatt atataattga aaatagaagg atggttgtct cactgtttgg tgccttctct aactcaagga cttggaccga tgactctgta gccagaagac ttcaatatta aatgactttg gggaatgtca taaagaagag ccttcacatg aaattagtag tgtgttgata agagtgaac atccagctct atgtgggaaa aaagaaatcc tggtttgtaa tgtttgtcag taaatactcc cactatgcct gatgtgacg tactaacctg acatcaccaa gtgtggaatt ggagaaaagc acaatcaact tttctgagct ggtgtaagcc agttccagca caccattgat gaattcaaac aaatggctgt aaactaaac atacatgttg ggcattgatt tacccttatt cscctcaaga gacctagcta aggtctataa acatgaaggg aaaattagct tttagtttta aaactcttta tccatcttgg attggggcag ttgacttttt tttttccca gagtgcgcta gtcctttttg taactacctc ctcaaatgga caatacaga agtgaattat cctgctggc tttctttctt ctatgaaaag caactgagta caattgttat gatctactca tttgctgaca catcagttat atcttggtgc atatccattg tggaaactgg atgaacagga tgtataatat gcaatcttac ttctatatca ttaggaaaac atcttagttg atgtacaaa acacctgtc aacctctcc tgtcttacca aacagtggga gggaattcct agctgtaaat ataaatttg ccttccatt tctactgtat aaacaaatta gcaatcattt tatataaga aaatcaatga aggattctt atcttcttgg aattttgtaa aaagaaattg tgaataatga gcttgtaaat actccattat tttattttat agtctcaaat caaatacata caactatgt aatttttaa gcaatataat aatgcaacaa tgtgtgtatg ttaatatctg atactgtatc tgggctgatt ttttaataa aatagactct ggaatgct	Homo sapiens
83	832	Cannabinoid Receptor 1	NM_001840	ggggactacg gagagctctg tcccaggagc caggggatgc gagctcagcc taatcaaaga caccttcgc accatcacca agacatcaaa ggtgacatgg ttcctttagg ggaagtcctc	ctggtgaatc tttttttctt gttaaatatt gtacgcgttc tcatcaccaa gttaaaaagt acacaccaag cgaatccaa tctgtacatg aaagctgtga gagctactct tatcttggtg ccattgcttg gcattgaatt tgtgctgatt ccatggcgac ctgaaggaaa gattgcagag gaggtatatg actacatcat gcaatccct atgcacttcc agggtctttt ggtctctacc atttctgct tctttaatgg agaggttcaa gcaattctga gaagaaactg gaatcaaatc aaatccaat ttggaacacg ctttccaac tcagaagctc ttcgtagtcg gtcttacaca gtgtcaaca ttagtgatgg tccaggttat agtcatgact gtcctagtcg acacttaaat ggaataagca tccatgatat tgaataatgtt ctttaaaac cagaaaaatt atataattga aaatagaagg atggttgtct cactgtttgg tgccttctct aactcaagga cttggaccga tgactctgta gccagaagac ttcaatatta aatgactttg gggaatgtca taaagaagag ccttcacatg aaattagtag tgtgttgata agagtgaac atccagctct atgtgggaaa aaagaaatcc tggtttgtaa tgtttgtcag taaatactcc cactatgcct gatgtgacg tactaacctg acatcaccaa gtgtggaatt ggagaaaagc acaatcaact tttctgagct ggtgtaagcc agttccagca caccattgat gaattcaaac aaatggctgt aaactaaac atacatgttg ggcattgatt tacccttatt cscctcaaga gacctagcta aggtctataa acatgaaggg aaaattagct tttagtttta aaactcttta tccatcttgg attggggcag ttgacttttt tttttccca gagtgcgcta gtcctttttg taactacctc ctcaaatgga caatacaga agtgaattat cctgctggc tttctttctt ctatgaaaag caactgagta caattgttat gatctactca tttgctgaca catcagttat atcttggtgc atatccattg tggaaactgg atgaacagga tgtataatat gcaatcttac ttctatatca ttaggaaaac atcttagttg atgtacaaa acacctgtc aacctctcc tgtcttacca aacagtggga gggaattcct agctgtaaat ataaatttg ccttccatt tctactgtat aaacaaatta gcaatcattt tatataaga aaatcaatga aggattctt atcttcttgg aattttgtaa aaagaaattg tgaataatga gcttgtaaat actccattat tttattttat agtctcaaat caaatacata caactatgt aatttttaa gcaatataat aatgcaacaa tgtgtgtatg ttaatatctg atactgtatc tgggctgatt ttttaataa aatagactct ggaatgct	Homo sapiens

84	Cannabinoid Receptor 1	NP_001831.1	<p> cccagcagac caggtgaaca ttacagaatt ttacaacaag tctctctcgt ccttcaagga gaatgaggag aacatccagt gtggggagaa cttcatggac atagagtgtt tcatgtctct gaacccagc cagcagctgg ccattgcagt cctgtccctc acgtctggga ccttcaaggt cctggagaac ctctctgctg cctctgctcat cctccactcc cgcagccctc gctgeaggcc ttcctaccac ttcatcggca gcctggcggt ggagacctc ctggggagtg tcatttttgt ctacagctc attgacttcc acgtgttcca ccgaaaagat agccgcaacg tgtttctgtt caactgggt ggggtcacgg cctccttcac tgcctccctg ggcagcctgt tcttcacagc catcgacagg tacatatcca ttacacggcc cctggccctat aagaggattg tcaccaggcc caaggccgtg tgggcgtttt gctgatgtg gaccatagcc attgtgatcg ccgtgctgccc tctcctgggc tggaactgcg agaaactgca atctgtttgc tcagacattt tcccacacat tgatgaacc tacttgatgt tctggatcgg ggtcaccagc gtactgcttc tgttcatcgt gtatgcgtac atgtatatc tctggaaggc tcacagccac gccgtccgca tgattcagcg tggcaccagc aagagcatca tcatccacac gctgaggat ggaaggtac aggtgacccg gccagaccac gcccgcatgg acattaggtt agccaagacc ctggctcctga tctgtgtggt gttgatcatc tgctggggcc ctctgcttgc aatcatggtg tatgatgtct ttgggaagat gaacaagctc attaagacgg tgtttgcatt ctgcagtatg ctctgcctgc tgaactccac cgtgaacccc atcatctatg ctctgaggag taaggacctg cgacacgctt tccggagcat gttccctct tgtgaaggca ctgcgagcc tctggataac agcatggggg actcgactg cctgcacaaa cagcaaaa atgcagccag tcttcacagg gccgcagaaa cctgcataca gagcacggtc aagattgcca agttaaccat gctctgttgc acagacacgt ctgccaggc tctgtgagcc tgatgcctcc ctggcagcac aggaataagaa ttttttttt taagctcaaa atctagaaga gtctattgtc tcttggtta tatttttta actttaccat gctcaatgaa aaggtgattg ccacatgtca cttatttgct tagttccgt ttgggctaact ctccgggggt tcgtaggaaa ccttt </p>	Homo sapiens
85	Cannabinoid Receptor 2	NM_001841	<p> KMTAGDNPQL VPADQVNITE FYNKSLSSFY ENEENIQCGE NFMDIECFMV LNPSQQLAIA VLSLTGTFV VLENLLVLCV ILHRSRLRCR PSYHFIGSLA VADLLGSVIF VYSFIDFHV HRKDSRNVEL FKLGGVTASF TASVGSLEFL AIDRYISIHR PLAYKRIVTR PKAVVAFCLM WTIAIVIAVL PLLGNCKEL QSVCSDFPH IDETYLMFWI GVTSVLLLEI VYAYMYILWK AHSHAVRMIQ RGTQKSIH TSEDGKVQVT RPDQARMDIR LAKTLVLILV VLIICWGPLL AIMVYDVFGK MNKLIKTVFA FCSMLCLLNS TVNPLIYALR SKDLRHAFRS MFPSCEGTAQ PLDMSMGDSO CLHKHANNAA SVHRAAESCI KSTVKIAKVT MSVSTDTSAE AL caggtccttg gagaggacag aaaaactg gactcctcag cccccggcag ctcccagtgc A ccagccacc ccaacacac ccaagcctt ctagacaaagc tcaagtgaat ctgaagggcc caccatagg aggaatgctg ggtgacagag atagccaatg gctccaaagg tggcttggat tccaacccta tgaaggatta catgatcctg agtggctccc agaagacagc tgttgcctg ttgtgcactc ttctgggctt gctaaagtgc ctggagaacg tggctgtgct ctatctgac ctgtcctccc accaactccg ccggaagccc tcatacctgt tcaattggcag cttggctggg gtgacttcc tggccagtgt ggtctttgca tgacgtttg tgaatttcca tgttttccat ggtgtggatt ccaaggctgt ctctctgctg aagattggca gcgtgactat gaccttccac gcctctgtgg gtagcctct gctgaccgcc atgaccgat acctctgct gcgctatcca </p>	Homo sapiens

86	833	Cannabinoid Receptor 2	NP_001832.1	MEECWVTEIA	NGSKDGLDSN	PKMDYMLSG	PQKTAVALC	TLGLLSALE	NVAVLYLILS	P	Homo sapiens
				SHQLRRKPSY	LFIGSLAGAD	FLASVVFACS	FVNFHVFHGV	DSKAVFELKI	GSVTMTFTAS		
				VGSLLLTAID	RYLCLRYPPS	YKALLTRGRA	LVTGLIMWVL	SALVSYLPLM	GWTCPRPCS		
				ELFPLIPNDY	LLSWLLFIAF	LFSGIITYYG	HVLWKAHQHV	ASLSGHQDRQ	VPGWARMRLD		
				VRLAKTLGLV	LAVLLICWFP	VLAALMAHSLA	TTLSDQVKKK	FAFCSMLCLI	NSMVNPVIYA		
				LRSGEIRSSA	HHCLAHWKKC	VRGLGSEAKE	EAPRSSVTET	EADGKITPWP	DSRDLDSLDC		
				agcctgtgga	gacggagacg	ccctgttccc	ctcactcttt	ccctgcgcgc	tctctgccgg	A	Homo sapiens
				agctccaacc	atggggagcc	cgctctttct	cgcatctctt	gtctggctgg	ctctgccggg		
				agctgaacc	caggactcca	ggggctgtgc	cggtgtgtgc	ctcagaact	cctcgtgtgt		
				caatgccacc	gcctgtcgct	gcaatccagg	gttcagctct	ttttctgaga	tcataccacc		
				cccgacggag	acttgtgacg	acatcaacga	gtgtgcaaa	ccgtogaaaa	tgtcatgcgg		
				aaaattctcg	gactgtctga	acacagaggg	gagctacgac	tgcgtgtgca	gcccgggata		
				tgagcctgtt	tctggggcaa	aaacattcaa	gaatgagagc	gagaacacct	gtcaagatgt		
				ggacgagtgc	agctccgggc	agcatcagtg	tgacagctcc	accgtctgct	tcaaacacct		
				gggttcatac	agctgcgct	gcgcgccagg	ctgggaagcc	agacacggaa	tcccgataaa		
				ccaaaaggac	actgtctgtg	agatatagac	tttctccacc	tggacccccc	ccctggaggt		
				ccacagccag	acgctttccc	gattcttcga	caaaagtccag	gacctgggca	gagactccaa		
				gacaagctca	gccgaggtca	ccatccagaa	tgtcatcaaa	ttggtggatg	aactgatgga		
				agctcctgga	gacgtagagg	ccctggcgcc	acctgtccgg	cacctcatag	ccaccagct		
				gctctcaaac	cttgaagata	tcattgaggat	cctggcccaag	agcctgcta	aagccccctt		
				ccttctaca	aagctctgct	caccgtgga	agggcactgg	tgaccctggg	catcatgtgg		
				gtcctctcag	cactagtctc	ctactgccc	ctcatggat	ggacttgctg	tccaggcccc		
				tgctctgagc	ttttccact	gatcccaat	gactacctgc	tgacttgctc	cctgttctac		
				gccttctctc	tttcgggaat	catctacacc	tatgggcatg	ttctctgaa	ggcccatcag		
				catgtggcca	gcttgtcttg	ccaccaggac	aggcaggtgc	caggaatggc	ccgaatgagg		
				ctgagatgtga	ggttggccaa	gacctaggg	ctagtgttgg	ctgtgtctct	catctgttgg		
				ttcccaagtgc	tgccctcat	ggccacagc	ctggccacta	cgctcagtga	ccaggtcaag		
				aaggcccttg	ctttctgctc	catctgtgc	ctcatcaact	ccatgttcaa	ccgtctcatc		
				tatgtcttac	ggagtggaga	gctccgctcc	tctgcccacc	actgcctggc	tcaatggaa		
				aagtgtgtga	ggggccttgg	gtcagaggca	aaagaagaag	ccccgagatc	ctcagtccac		
				gagacagagg	ctgatgggaa	aatcactccg	tggccagatt	ccagagatct	agacctctct		
				gattgtgat	gagccctctt	cccaatttaa	acaactcaag	tcagaaatca	gttcaactccc		
				tggaagagag	agaggggtct	tggcactctc	ttcttactta	aaccagtccc	agacacctag		
				acacggaccc	ctttttgctg	atgagtgttg	ggactgactc	ctggaagaca	gcttggcctt		
				gcccacctgc	acacagtctg	ttggataggt	agggccacga	ggagttagcca	ggtaggcgag		
				acacaaaaag	ccctgggaca	gggtcagtac	aagtcaggac	aggcttcatg	cctgcatcct		
				ccagagacca	ccaggagcca	agtcgagcct	ccaggcccag	caatgaggga	cttgggagaa		
				atctgagaag	aatgggttgt	tctcttggga	agtcagggtga	tgacatggga	tggacatcca		
				ggtcttctct	ctgcctaatt	gtcaaggcct	ccttggctct	ggagctatga	aaggccccac		
				tttcaagtca	cccttgcac	tgaggaccga	ggactatgct	atgatgagga	ttaaggtgtt		
				gacttgcctc	tttcagagat	aatgacaag	ccttca				
				SHQLRRKPSY	LFIGSLAGAD	FLASVVFACS	FVNFHVFHGV	DSKAVFELKI	GSVTMTFTAS		
				VGSLLLTAID	RYLCLRYPPS	YKALLTRGRA	LVTGLIMWVL	SALVSYLPLM	GWTCPRPCS		
				ELFPLIPNDY	LLSWLLFIAF	LFSGIITYYG	HVLWKAHQHV	ASLSGHQDRQ	VPGWARMRLD		
				VRLAKTLGLV	LAVLLICWFP	VLAALMAHSLA	TTLSDQVKKK	FAFCSMLCLI	NSMVNPVIYA		
				LRSGEIRSSA	HHCLAHWKKC	VRGLGSEAKE	EAPRSSVTET	EADGKITPWP	DSRDLDSLDC		
				agcctgtgga	gacggagacg	ccctgttccc	ctcactcttt	ccctgcgcgc	tctctgccgg	A	Homo sapiens
				agctccaacc	atggggagcc	cgctctttct	cgcatctctt	gtctggctgg	ctctgccggg		
				agctgaacc	caggactcca	ggggctgtgc	cggtgtgtgc	ctcagaact	cctcgtgtgt		
				caatgccacc	gcctgtcgct	gcaatccagg	gttcagctct	ttttctgaga	tcataccacc		
				cccgacggag	acttgtgacg	acatcaacga	gtgtgcaaa	ccgtogaaaa	tgtcatgcgg		
				aaaattctcg	gactgtctga	acacagaggg	gagctacgac	tgcgtgtgca	gcccgggata		
				tgagcctgtt	tctggggcaa	aaacattcaa	gaatgagagc	gagaacacct	gtcaagatgt		
				ggacgagtgc	agctccgggc	agcatcagtg	tgacagctcc	accgtctgct	tcaaacacct		
				gggttcatac	agctgcgct	gcgcgccagg	ctgggaagcc	agacacggaa	tcccgataaa		
				ccaaaaggac	actgtctgtg	agatatagac	tttctccacc	tggacccccc	ccctggaggt		
				ccacagccag	acgctttccc	gattcttcga	caaaagtccag	gacctgggca	gagactccaa		
				gacaagctca	gccgaggtca	ccatccagaa	tgtcatcaaa	ttggtggatg	aactgatgga		
				agctcctgga	gacgtagagg	ccctggcgcc	acctgtccgg	cacctcatag	ccaccagct		
				gctctcaaac	cttgaagata	tcattgaggat	cctggcccaag	agcctgcta	aagccccctt		
87	922	Leukocyte Antigen CD97	NM_001784								

88	922	Leukocyte Antigen CD97	NP_001775.1	<p> caccacatt tccctctga acacagagt gacctgatg atccaggagc ggggggacaa gaacgtcaat atgggtcaga gcagcgcaag catgaagctg aattgggctg tggcagctgg agccgaggat ccaggccccc ccgtggcggg catctctcc atccagaaca tgcagacatt gctggccaat gcctccttga acctgcattc caagaagcaa gccgaactgg aggagatata tgaagcagc atccgtggtg tccaactcag acgcctctct gcgctcaact ccatctttct gagccacaac aacaccaagg aactcaactc ccccatcctt ttgcctttct cccacctga gtctccgat ggggaggcgg gaagagacc tctgccaag gactgatgc ctgggccaag gcaggagctg ctctgtgect tctggaagag tgcagcgac aggggagggc actgggccac cgaggtctgc caggtgctgg gcagcaagaa cggcagcacc acctgccaat gcagccact gagcagcttt acgaccta tggctcatta tgacgtggag gactggaagc tgacctgat caccaagggtg gactggcgc tgtactctt ctgcctgctg ctgtgcaccc tcactttct gctggtgcgg cccatccagg gctgcgcac caccatacac ctgcacctct gcactgctt cttcgtgggc tccaccatct tctggccgg catcgagaac gaaggcgcc aggtgggct gcgtggccgc ctggtggccg gctgctgca ctactgttc ctggccgct tctgctggat gagctcgaa ggcctggagc tctactttct tgtgtgcgc gtgttccaa ggcaggcct gagtacgcgc tggctgccc tgatcgcta tggcgtgccc ctgctcatcg tggcgtctc gggttccctc tggagcttct tgggacctg gacctatc attttgtca atgtgtcat tttcgtgact accgtctgga agctcactca gaagttttct gaaatcaatc cagacatgaa gaaattaaag aaggcgaggc cgctgacctc caaggccatc gcgagctct tctgttggg ctgcacctgg gtcttggcc tgttactctt cgacgatcgg agcttggctg tgacctatgt gtttaccatc ctcaactgcc tgcaggcgc ctctctctac ctgctgcact gcctgctcaa caagaagggt cgggaagaat accggaagt ggcctgcta gttgtgggg ggagcaagta ctcagaattc acctccacca cgtctggcac tggccacaat cagaccggg cctcaggggc atcagagctc gccatatgaa ggcgcagtgt tctggacggc ccagcagctc ctgtggccac agcagcttg tacacgaaga ccatccatcc tccctcgtc caccactcta ctcctccac ctcctccc tgatccgtg tgcaccagg aggagtggc agctatagtc tggcaccaaa gtccaggaca cccagtgggg tggagtcgga gcaactggtc ctgctgctgg ctgctctct gtccacctt gtgaccagg gtgggacag ggcctggccc agggctgcaa tgcagatgt tgccctggca cctgtggcca gtactcgga cagactaagg gcgctgtcc catcctggac tttctctc atgtcttgc tgcagaactg aagagactag gcgctggggc tcagctccc tcttaagcta agactgatgt cagagggccc atggcaggc ccttggggc cactgctga ggctcacgt acagagcct gcctgctg tgggtgctg ggcgggagc aggttctcac tgtgtgaag gtgtgagc ttgtgtaatg tgttttctc tgttaaaatt tticagtgt gacactaaa attaaacaca tgcatacaga aaaaaaaaaa a </p>	<p> FSEIITPTE P ENTCQDVDEC WTPPGVHSQ HLIATQLLSN NWAVAAGAE AVNSIFLSHN </p>
88	922	Leukocyte Antigen CD97	NP_001775.1	<p> MGRVFLAF VMLTLPAGT QDSRCARWC PONSVCNAT ACRCNPGFSS FSEIITPTE P TCDDINECAT PSKVCGRFS DCWNTEGSYD CVCSPGYEPV SGAKTFKNES ENTQDVDEC SSGQHQCDS TVCFNTVGSY SCRCRPGWK RHGIPNNQKD TVCEDMTFST WTPPGVHSQ TLRFFDKVQ DLGRDSVTSS AVEITQNVIK LVDELMEAPG DVEALAPPVR HLIATQLLSN LEDIMRILAK SLPGPFTYI SPSNTELTLM IQERGDKNVT MGQSSARMKL NWAVAAGAE PGPAVAGILS IQNMTTLAN ASLNLSKKQ AELEIYESS IRGQLRLRLS AVNSIFLSHN </p>	<p> Homo sapiens </p>

89	2941	EMR1 Hormone NM_001974 Receptor	NTKELNSPIL FAFSHLESSD GEAGRPPAK DVMPGRQEL LCAFWKSDSD RGGHWATEVC QVLGSKNGST TCQCSHLSSF TILMAHYDVE DWKLTILTRV GLALSFLCLL LCILTFLLVR PIQGSRTTIH LHLICICLFVG STIFLAGIEN EGGQVGLRCR LVAGLLHYCF LA AFCWMSLE GLELYFLVWR VFQGGGLSTR WLCLIGYGVV LLIVGVSAAI YSKGYGRPRY CWLDFEQGFL WSFLGPVTFI ILCNAVIFVT TWKLTQKFS EINDMKKLK KARALITAI AQLFLLGCTW VFGLFIFDDR SILVLYVFTI LNCLOGAFLY LLHCLLNKKV REEYRWACL VAGGSKYSEF TSTTSGTGN QTRALRASES GI	Homo sapiens
941			ctaaagtgtt ttcttttgaa tgacagaact acagcataat gcgtggcttc aacctgtcc A tcttctgggg atgttgtgtt atgcacagct gggaaggcca cataagacc acacgaaac caacacaaa gggtaataac tgtagagaca gtacctgtg cccagcttat gccacctgca ccaatcgggt ggacagttac tattgeactt gcaacaagg cttcctgtcc agcaatgggc aaaatcactt caaggatcca ggagtgcgat gcaagatat tgatgaatgt tctcaaaagg cccagccctg tggctcctaac tcacctgca aaaacctgtc agggaggtac aagtgcagct gtttagatgg ttctcttctt cccactggaa atgactgggt cccaggaaa cgggcaatt tctcctgtac tgatatcaat gactgcctca ccagcagggt ctgccctgag cattctgact gtgtcaactc catgggaagc tacagttgca gctgtcaagt tggattcacc tctagaaact ccacctgtga agactggaat gaattgtcag atccaagac ttgccagag catgcaactt gtaataaac tggttgaaac tactctgtt tctgcaacc aggatttgaa tccagcagt gccacttgag ttgccagggt ctcaaaagcat cgtgtgaaat tattgatgaa tgcactgaaa tgtgccccat caattcaaca tgcaccaaca ctctctggag ctacttttc acctgccacc ctggctttgc accaagcagt ggacagttga atttcacaga ccaaggagtg gaattgagag atattgatga gtgcgccaa gatccatcaa cctgtgtgtc taattctatc tgcaccaatg ccttggtgtc ctacagctgt ggtgcattg tagcttttca tcccaatcca gaaggtctcc agaaagatgg caacttcagc tgccaaagg ttctcttcaa atgtaaggaa gatgtgatac ccgataataa gcagatccag caatgccaa gggtaaccgc agtgaacct gcatagtct ccttttgtgc acaataaat aacatcttca gcgttctgga caaagtgtgt gaaaataaaa cgaccgtagt ttctctgaag aatacaactg agagctttgt cctgtgtctt aaacaatat ccatgtggac taaattcacc aggaagaga cgtctctcctt ggcacagtc ttctggaga gtgtggaaaag catgacactg gcattctttt gaaacccctc agcaaatgtc actcggctg ttcggggcga atacttagac attgagagca agttatcaa caaagaatgc agtgaagaga atgtgacgtt ggacttggtta gccaaagggt accactgtgt tggctttgt ctccttttg ggcaggaat aggaatctga atccacagag accactgtgt ttccaagacc accaggtctc cttgaccacc tctgagatca cggttttaa tgagcgttc ttccaagacc accaggtctc cttgaccacc tctgagatca agctgaagat gaattctoga gtctgtgggt gcataatgac tggagagaag aaagcggct tctcagatcc aatcatctac actctggaga acgttcagcc aaagcagaag tttagagggc ccatctgtgt ttcttgagc actgatgtga aggttggaag atggacatcc tttagctgtg tgatccttga agctctgtag acatatacca tctgcagctg taatcagatg gcaaatctg cgttatcat ggcgtctggg gacttcacga tggacttttc cttgtacatc attagccatg taggcattat catctcctt gtgtgcctc tttggccat cggccactt ctgctgtgtc gtcccatccg aaatcacac acctacctc accctgacct ctgcgtgtgt ctcctttgg cgaagactct ctctctgcc ggtatacaca agactgaca caagcgggc tgcgccatca	

90	941	EMR1 Hormone NP_001965.1	MRGFNLLFW	GCCVMHSEWG	HIRPTRKPNVT	KGNNCRDSTL	CPAYATCTNT	VDSYYCTCKQ	P	Homo sapiens
			GFLSSNGQNH	FKDPGVRCCKD	IDECSPQSPQ	CGPNSSCKNL	SGRYKCSCLD	GFSSPTGNDW		
			VPGKPGNFSC	TDINECLTSR	VCPEHSDCVN	SMGSYSQSQ	VGFISRNSTC	EDVNECADPR		
			ACPEHATCNN	TVGNYSFCFN	PGFESSGHL	SCQGLKASCE	DIDECTEMCP	INSTCTNTPG		
			SYFCTCHPGF	APSSGQLNFT	DQGVCECRDID	ECRQDPTSCG	PNISCTNALG	SYSCGCIVGF		
			HPNPEGSQKD	GNFSCQORVLF	KCKEDVIPDN	KQIQQCQEGT	AVKPAYVSFC	AQINNIFSVL		
			DKVCENKTV	VSLKNTTESF	VPVLKQISMW	TKFTKEETSS	LATVFLESVE	SMTLASFWKP		
			SANVTFAVRA	EYLDIESKVI	NKECSEENV	LDLVAKGDKM	KIGCSTIEES	ESTETTGVAF		
			VSVGMESVL	NERFTQDHQA	PLTTSEIKLK	MNSRVVGGIM	TGEKKDGFSD	PIIYTLNVQ		
			PKQKFERPIC	VSWSTDVKGG	RWTSFGCVIL	EASETYTICS	CNQMANLAVI	MASGELTMDF		
			SLYIIISHVGI	IISLVCLVLA	IATFLLCRSI	RNHNTYIHLH	LCVCLLLAKT	LFLAGIHKTD		
			NKTGCAIAG	FLHYLFLACF	FWMLVEAVIL	FLMVRNLKVV	NYFSSRNIMK	LHICAFGYGL		
			PMLVVVISAS	VQPQGYGMHN	RCWLNTETGF	IWSFLGPVCT	VIVINSLLLT	WTLWILRQL		
			SSVNAEVSTL	KDTRLITFKA	FAQLFILGCS	MVLGIFQIGP	VAGVMAYLFT	IINSLQGAFI		
			FLIHCLNGQ	VREYKRWIT	GKTKPSSQSQ	TSRILLSSMP	SASKTG			
			ggaaaacgac	acctagaagt	aggagtga	ttcgtgaag	ttccctctg	aggaagacc	A	Homo sapiens
			acccctccgc	ctggagagcc	ggggctggcg	gtgcctgagg	acccctcgg	cctggacagc		
			ccacgcgggc	ttggggggcc	tcgctctgcc	ctcatggggc	ggccatcggt	tcccgaagcg		
			gcgagtgaaa	attcaaatgg	ccagtagggg	gcgcactcgg	aagtgggcgc	ccgcgatgag		
			gcagttcagc	ggccccgaga	gtccggggag	ggaggtttat	tctccgcctg	cacgagactg		
			tgaatccgc	aacctagac	aggagagggc	gccctgggtg	ggaaagggcc	acaaacatct		
			ggacggcagg	taccacagaga	gtgagcagct	ccacgcggga	ctgtgcacgg	tggccgacac		
91	965	G Protein-Coupled Receptor GPR30	NM_001505							

ccgacaggac gccgcgcgga cgagcacgag gaggccctc gctccacgg atgcaccatg
 ccggtgtgag gagcatctgt tcttccact ctctgcagtt acaaaacca accaaaacca
 ccacaggtag tctctctggg gatttctctg tctgacaaat gccaggctca cttaagagag
 aatcacgctt ctttctaaag atggattcac catttaaac agagctctgg gacctttctg
 gcaaatcttg aagctgcac ggcgcagaga catgatgtg acttcccaag ccgggggcgt
 ggccctggag atgtaccag gcaccgcga gccctggcc ccaaacacca cctcccccga
 gctcaacctg tccacccgc tctgggac cgccctggc atgggacag gtgagctctc
 ggagaccag cagtaactga tccgctgtt cctctgtgc ctctacacca tcttctctt
 ccccatcgcc ttgtgggca acatctgat cctgttggtg aacatcagct tccgcagaa
 gatgaccatc ccgacctgt acttcatca cctggcggtg ggggacctca tctgttggtg
 cgactccctc attgaggtgt tcaacctgca cgagcggtac tacgacatcg ccgtcctgtg
 caccttcag tgcctcttc tgcaggtcaa catgtacagc agctcttct tctacactg
 gatgagcttc gaccgtaca tgcctctggc caggccatg cgctgcagc tgttcgcac
 caagcaccac gcccgctga gctgtggcct catctggatg gcatcctgt cagccacgct
 ggtgccctc accgccgtg cctgcagca caccgacag gccctgttct gtttcgcga
 tgtccgggag gtgcagtgcc tgcaggtcac gctgggttc atcgtgcct tgcctcatc
 cggcctgtgc tactcctca ttgtccggtt gctggtcagg ggcacccgc accgtgggt
 gggcccccgg cggcagaagg gcctccgcat gatcctcgg gtggtgctgg tcttctctg
 ctgctggctg ccggagaacg tcttctcag cgtgcacctc ctgcagcgga cgcagcctgg
 ggcgctccc tgcaagcagt ctttcgcga tgcaccccc ctcacgggc acattgtcaa
 cctgcgcgc ttctccaaca gctgcctaaa cccctctc tacagcttc tcggggagac
 cttaagggac aagctgaggc tgtacattga gcagaaaca aattggcgg cctgaaccg
 cttctgtcac gctgcccga agccgtcat tccagacagc accgagcagt cggatgtgag
 gttcagcagt gccgtgtaga cagccttggc cgcataggcc cagccagggt gtgactcggg
 agctgcacac acctgggtgg acacaaggca cggccacgtc atgtctctaa actgcggtca
 gatgtggctt ctggctctc ggggcctcgc gagggtcacg cttgcctggt caccctgggg
 ctgcttagga aacctcaga ctggtcacct tgactcttc acacagaatt gctacaatcc
 caaagcgtc gccccgcagg gtccaaaggc cagcgtgtac cagcctgtca cccagctcct
 cccgcacca cctgcctgcc gctgcacctg cctgcgcgtg caggaaacat ttgacacct
 cgaccaggaa agccacacgg agagccact gtgggtgaa gctcctcagt acacagaaac
 cctaaagcaa atctgccacc gtgggggaa tgacgctgga gatgcaaggt cctgtgggt
 ctgagctgga cgtcgcggtg tgcctctgt gccacggtc tgagctagt agcgcaccg
 cgagttaaag aggagaagga aaacatgctg ctctggtgca cgcctgagcg tctccatct
 tccaggatgg cagcaatggc gctgtgcggc ctacccaggc ccacgaggag cagcagcgt
 cggcccgag cagcaggaag gccctctgt ggagcgccc cgtctgtctc cgggtgggtt
 cagtcaactg ttgttgacat caacatggca atgacatca tgtggactgg gacctgcga
 gctgccgtgt gggttagtgc ggtgccagga caatgaaata ctccagcagc tgtggtgac
 gaatttgtt ctacagaaat aacagctggg gacaactggt gtgatgatgt aaaaacctc
 ccataaaatg taagaaaagc tgatgaggct ggtgacgttc agcctttgtc aataaacctg
 tcatgtgcgg atcctt

Homo

P

EHQYVIGLF

ALANGTGELS

LNLSHPLIGT

PAAPNTTSPE

GLEMYPGTAQ

NP_001496.1

MDVTSQARGV

G Protein-

965

92

95	1103	Corticotropin releasing factor Receptor 2	NP_001883	MSASVPPQ	TSSCVNPIIY CFMNRFRILG FMATFPCCPN PGPPGARGEV GEEEGGTTG A\$LSRFSYSH	atggagcgcg cactgtctca cagcctgctg gaggccaact gcagcctggc gctggctgaa A gagctgctct tggagcgctg ggggccccc ctggaccccc agggctcccta ctctactgc aacacgacct tggaccagat cggaacgtgc tggccccgca gcgctgcgg agccctgctg gagagccgt gcccgagta cttcaacggc gtaagtaca acacgaccc gaatgctat cgagaatgct tggagaatgg gacgtggcc tcaaatgata actactaca gtgtgagccc atttggatg acaagcagag gaagtatgac ctgcactacc gcacgcctt tgtgtcaaac tacctgggcc actgcgtatc tgtgacgccc ctgtgctgccc ccttctctgt tttctggccc ctgcggagca ttgcgtgtct gcggaatgtg attcactgga acctcatcac cacctttatc ctgcgaaatg tcatgtggtt cctgtgtcag ctggttgacc atgaagtgca cgagagcaat gaggtctggt gccactgcat caccaccatc ttcaactact tegtgtgac caacttcttc tggatglttg tggagggctg ctacctgcac acggccattg tcatgaccta ctccactgag cgctgcgca agtgcctctt cctcttcac gtagtgtgca tccccctccc catcatgttc gcctgggcca tgggcaagct ctactatgag aatgaacagt gctgggtttgg caaggagcct ggcgacctgg tggactacat ctaccaaggc cccatcattc tegtgtctct gatcaatttc gtatttctgt tcaacatcgt caggatccta atgacaaagt tacgcgcgtc caccacatcc gagacaatcc agtacaggaa ggcagtgaag gccacctgg tgcctctgcc cctcctgggc atacctaca tgcctctctt cgtcaatccc gggagggagc acctgttaca gatcatgttc atctatttca atcctctctt gcagtcgttc cagggtttct tegtgtctg ctctactgac ttcttcaatg gagaggtgag ctacgcgtg aggaagaggt ggcacgcgtg cgaggacctc cactccttc ggtccccat ggccccggcc atgtccatcc ctacatcac cacacggatc agcttcaca gcatcaagca gacggcgtct gtgtgacccc tgggtgcgcc acctgcacag ctccccgtc ctctccacc ttcttctctt ggtttctctg tgtggggcag gctctgtgg ggcaggagat gggaggggag agaccagctc tccagcctgg caggaaagag ggggtgcggc agccaaaggg gactgcaagg gacagggatg agtgggggcc accaggctca gcgcaagagg aagcagagg aattcacagg acccctgtg aagagccagt cagatgtctg caggcatttg cccatccag cctctctggc cagggcctta ctgggcccag agcagagaag gacctgtcca acacacag ctatttatag tagcagacac agggctcccc tgcctactc atggagccag cagccaggca atggtgtggc cctgcactgg ccttggaact ccacactcag tgggtccctg cagttgggtg ggttaacgcc aagcaaggga tcagtttggc tgcctatcc cagggtctgc acctagagag gctcacttgt accccacct gtctctgtgt cccctcccc gccatctccc ccgcttggg ggtcccatga aggatgcagg ctccaggcc tggcttctc tcttgggaga ccctctctct gctagtcca cagattaggc aataaaggaa gacgccata gggagagcac atccttagtc aaccagttgc atcgtgcggg gcaaatag gagcagaggc atggagaggg gagggtggg atgggaatag cagaaccacc atgtcttcag tgattgaaac tcatacccca ttgcctttg cctccagtc tccccctcag aaacatctct gctctctgtg aaataaacca tgcctcttg	Homo sapiens
96	1103	Corticotropin releasing factor	NP_001874.1	MDAALLHSLI	ERPCPEYFNG VKYNTTRNAY RECLENGTWA SHINLITTFI LRNVWFFLLQ LVDHEVHESN	LDPEGPYSYC NTLDQIGTC WPSAAGALV P ILDDKQRYD LHYRIALVN	Homo sapiens

EVWCHCITTI FNYFVVTNFF WMFVEGCVLH TAIVMTYSTE RLKCKLFLFI GWCIPFPPIIV
 AWAIKLYYE NEQCFGKEP GDLVDYTYQG PIILVLLINF VLFNIVIRIL MTKLRASSTS
 ETIQYRKAVK ATILVLLPLLG ITYMLFFVNP GEDDLSQIME IYFNSFLQSF QGFFVSFVYC
 FFNGEVRSAV RKRHRWQDH HSLRVPARA MSIPSPTRI SFHSIKQTAA V
 ggctcgctgc ctgcctatgc cacaggctcc tgagaggtcg cgggcagtcg ctgctgggag A
 gcgcggggcc ctgctctgta gggctgaagg ccgcgcagg ttgcgcaagg ctctgggctc sapiens
 tcgaaggaa gccaaagaaa gaagctgccc aggtgaccag tctggggagt gctctctccc
 aaggaaagctc cgaagcgccc gaagccctta gccgggggtct agtgcctttt gaacaatctc
 cagctcttca aggaagtggg ctgcccgcgc ctctcttggg acctggcctg ggatcctttc
 cccaaacgca ccccgcgcat ttttgcgac cgggagccga acccctgctg cgcgcagctg
 gctgggctca ggcgcgcttc ctcaacgttt cggagccgct gccccagcg aagtcacat
 tccaagctcc aggggctttg agagagacga cccaaggca aggcgtttgg agagctgctg
 aggagccagg ggcttggagg agcgagaaga catgtatttt cagctgagtc tcagaaaggg
 agaattcctt gtcaccacca gaaaagcaac agcccgaata tgtgattgca actgactagc
 agagcagagg cccaggagtc actggattga tgatttagaa tatgctaaaa agccagtgtc
 ttatttgggg aattcagggg ctttctggtg cccaagacag tgacctgcag atgaggactc
 tgaacacctc tgccatggac gggactgggc tgggtggtgga gagggacttc tctgttcgta
 tctcactgc ctgtttccta tcgctgtca tccctctccac gctcctggg aacacgttg
 tctgtgctgc cgttatcagg ttccgacacc tgcgttccaa tctgttgcac tctttgtca
 tctccttggc tgtgtcagat ctcttgggtg cagtcctggg catgcccctg aaggcagtgg
 ctgagattgc tggcttctgg cccttgggtt ccttctgtaa catctgggtg gcctttgaca
 tcatgtgctc cactgcatcc atcctcaacc tctgtgtgat cagcgtggac aggtattggg
 ctatctccag cctttccgg tatgagagaa agatgacccc caaggcagcc ttcctctga
 tcagtgtggc atggaccttg tctgtactca tctccttcat cccagtgcag ctcagctggc
 acaaggcaaa accacaaagc ccctctgatg gaaatgccc atcctctgta ataagctttt
 acaactgtga ctccagctc agcaggacat atgccaatctc atcctctgta ataagctttt
 acatccctgt ggccatcatg atgtcacct acaccaggat ctacaggatt gctcagaaac
 aaatacggcg cattcgcc ttggagaggg cagcagtcca gcccaagaat tgcagacca
 ccacaggtaa tggaaagcct gtcgaatgtt ctcaaccgga agttctttt aagatgtcct
 tcaaaagaga aactaaagtc ctgaagactc tgtcggtgat catgggtgtg tttgtgtgct
 gttgggtacc tttcttcac ttgaactgca ttttgccctt ctgtgggtct ggggagacgc
 agcccttctg cattgattcc aacaccttg acgtgtttgt ggtgtttggg tgggctaatt
 catecttga cccatcatt tatgccttta atgtgattt tcggaaggca ttttcaacc
 tcttaggatg ctacagactt tgcctgcga cgaataatgc catagagacg gtgagtatca
 ataacaatgg ggcgcgatg ttttccagcc atcatgagcc acgaggtcc atctccaagg
 agtgcattct ggtttacctg atcccacatg ctgtgggctc ctctgaggac ctgaaaaagg
 aggagggcagc tggcatcgcc agaccttgg agaagctgtc cccagcccta tcggtcatat
 tggactatga cactgacgtc tctctggaga agatccaacc catcacaca aacgggtcagc
 acccaacctg aactcgaga tgaatcctgc cacacatgct catcccaaaa gctagaggag
 attgctctgg ggtttgctat taagaaacta aggtacgggtg agactctgag gtgtcaggag
 agccctctgc tgcttttcaa cacacaatta actcgttttc caaatatatt ccagtgtatt

Homo
sapiens

127/448

98	1240	Dopamine Receptor D1	NP_000785.1	<p> MRTLNTSAMD GTGLVVERDF SVRILTFACFL SLLILSTLLG NTLVCAAVIR FRHLRSKVTN P FFVISLAVSD LLVAVLVMPW KAVAEIAGFW PFGSFCNIWV AFDIMCSTAS ILNLCVISVD RYWAISSPFR YERKMPKAA FILISVAWTL SVLISFIPVQ LSWHKAKPTS PSDGNATSLA ETIDNCDSSL SRTYAISVV ISFYIPVAIM IVTYTRIYRI AQKQIRRIAA LERAAVHAKN CQTTTGNGKP VECSPESSE KMSFKRETKV LKTLSSVIMGV FVCCWLPPFI LNCILPFCGS GETQPCIDS NTFDVFVWFG WANSSLNPII YAFNADFRKA FSTLLGCYRL CPATNNAIET VSINNGAAM FSSHHEPRGS ISKECNLVYL IPHAVGSSSED LKKEEAAGIA RPLEKLSPAL SVILDYTDV SLEKIQITQ NGQHPT ggcagcaggc agggctgaag ttgggacgcg gcaagacgcg ccctgcagt ccagcccgaa A atgtcgcgcg caggcagcaa cggcacgcgcg taccggggcg agtgcgtct ataccagcag ctggcgccag ggaacgcctg ggggggctcg cggggggcac cgccactggg gccctcacag gtggtcacgc cctgcctgct gaccctactc atcatctgga cctcgtggg caacgtgctg gtgtgcgcag ccatcgtgcg gacgcgcac ctggcgccca acatgaccaa cgtcttcac gtgtctcttg ccgtgtcaga cctttctgtg gcgtgcctg toatgcccgt gaaggcagtc gccgaggtgg ccggttactg gccctttgga gcgttctgcg acgtctgggt ggccttogac atcatgtgct ccactgcctc catcctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttccg ctacaaagcg aagatgactc agcgcagtgc cttggtcatg gtcggcctgg catggacctt gtccatctc atctcctca tccgggtcca gctcaactgg cacagggacc aggcggcctc ttggggcggg ctggacctgc caaacaacct ggccaaactgg acgccctggg agggaggactt ttggggagccc gacgtgaatg cagagaaactg tgactccagc ctgaatcgaa cctacgccat ctcttctcgc ctcatcagct tctacatccc cgttgccatc atgatcgtga cctacacgcg catctacgcg atgcgcccg tgcagatccc caggatttcc tccctggaga gggccgcaga gcacgcgcag agctgccgga gcagcgcagc ctgcccgcgc gacaccagcc tgcgcgttc catcaagaag gagaccaagg ttctcaagac cctgtcggtg atcatggggg tcttcgtgtg ttgctggctg ccttcttca tcttaactg catggtccct ttctgcagtg gacacctga aggcctccg gccggcttcc cctgcgtcag tgagaccacc ttcgacgtct tctctgtgtt cggctgggt aactcctcac tcaaccccg catctatgcc ttcaacgccg actttcagaa ggtgtttgcc cagctgctgg ggtgcagcca cttctgtctc cgcaagcccg tggagacggt gaacatcagc aatgagctga tctcctacaa ccaagacatc gtcttcaca aggaatcgc agctgcctac atccacatga tgcacaagc cgttaccccc ggcaaccggg aggtggacaa cgacgaggag gagggtcctt tcatcgcat gtccagatc </p>	Homo sapiens
99	1241	Dopamine Receptor D5	NM_000798	<p> ggcagcaggc agggctgaag ttgggacgcg gcaagacgcg ccctgcagt ccagcccgaa A atgtcgcgcg caggcagcaa cggcacgcgcg taccggggcg agtgcgtct ataccagcag ctggcgccag ggaacgcctg ggggggctcg cggggggcac cgccactggg gccctcacag gtggtcacgc cctgcctgct gaccctactc atcatctgga cctcgtggg caacgtgctg gtgtgcgcag ccatcgtgcg gacgcgcac ctggcgccca acatgaccaa cgtcttcac gtgtctcttg ccgtgtcaga cctttctgtg gcgtgcctg toatgcccgt gaaggcagtc gccgaggtgg ccggttactg gccctttgga gcgttctgcg acgtctgggt ggccttogac atcatgtgct ccactgcctc catcctgaac ctgtgcgtca tcagcgtgga ccgctactgg gccatctcca ggccttccg ctacaaagcg aagatgactc agcgcagtgc cttggtcatg gtcggcctgg catggacctt gtccatctc atctcctca tccgggtcca gctcaactgg cacagggacc aggcggcctc ttggggcggg ctggacctgc caaacaacct ggccaaactgg acgccctggg agggaggactt ttggggagccc gacgtgaatg cagagaaactg tgactccagc ctgaatcgaa cctacgccat ctcttctcgc ctcatcagct tctacatccc cgttgccatc atgatcgtga cctacacgcg catctacgcg atgcgcccg tgcagatccc caggatttcc tccctggaga gggccgcaga gcacgcgcag agctgccgga gcagcgcagc ctgcccgcgc gacaccagcc tgcgcgttc catcaagaag gagaccaagg ttctcaagac cctgtcggtg atcatggggg tcttcgtgtg ttgctggctg ccttcttca tcttaactg catggtccct ttctgcagtg gacacctga aggcctccg gccggcttcc cctgcgtcag tgagaccacc ttcgacgtct tctctgtgtt cggctgggt aactcctcac tcaaccccg catctatgcc ttcaacgccg actttcagaa ggtgtttgcc cagctgctgg ggtgcagcca cttctgtctc cgcaagcccg tggagacggt gaacatcagc aatgagctga tctcctacaa ccaagacatc gtcttcaca aggaatcgc agctgcctac atccacatga tgcacaagc cgttaccccc ggcaaccggg aggtggacaa cgacgaggag gagggtcctt tcatcgcat gtccagatc </p>	Homo sapiens

100	1241	Dopamine Receptor D5	NP_000789.1	tatcagacgt cccagatgg tgacctgtt gctgagtctg tctgggagct ggactgcgag gggagattt ctttagacaa ataacacct ttcacccga atggattcca ttaactgca ttaagaaacc cctcatgga tctgcataac cgcacagaca ctgacaagca cgcacaca cgcaaataca tgcctttcca gtgctgtcc ctttatcatg tgtttctgtg tagtagctcg tgtgottaga aacctcacc cattgattgg tagttcgaag aattggcaga atcagttgca ataactcag tcaaatgtac ccagcctacc agagatggac caacgatcct atgagagaag agagtatggt gctgggtcct taataaaaa aatgatactt ggtccttaaa aatatgtc tccctccct ttttaaaaa atggcttgtt cagtcacttg tttgtgtttg aattgatttt taaacagcag gttgtgtgtg tgtgcagtga tgtgtgtgga gcacagcttt cctgggtctg gattcccggt gctttgtgct tatgtcattt ctctctctg tgctgtgtgg ggcctctta ccatagctta agaagtatcc ctgatttatt ctggtgtcta ataacacag attatttga aaaaaaaaa aaaaaaaaa aa	LAQNAVGGG AGAPPLGPSQ VVTACLLTLL IIWTLGNVL P VCAIIVRSRH LRAMTNVFI VSLAVSDLFV ALLVMPWKAV AEVAGYWPFG AFCDVWVAFD IMCSTASIIN LCVISVDRYW AISRPFRYKR KMTORMALVM VGLAWTLSIL ISFIPVQLNW HRDQAASWGG LDLPNNLANW TPWEEDFWEF DVNAENCDSS LNRTYAISSS LISFYIPVAI MIVTYTRIYR IAQVQIRRIIS SLERAABHAQ SCRSSAACAP DTSLRASIKK ETKVLKTLV IMGVFVCCWL PFFILNCMVP FCSGHPEGPP AGFPCVSETT FDFVFWFGWA NSSLNPVIYA FNADFQKVEA QLLGCSHFCS RTPVETVNIS NELISYNQDI VFHKEIAAAY IHMPNAVTP GNREVDNDEE EGPFDRMFOI YQTSPPDGPV AESWELDCE GEISLDKITP FTPNGFH agagcctggc caccagctgg ctccacgcc ctgatggatc cactgaatct gtcctggtat A gatgatgatc tggagaggca gaactggagc cggcccttca acgggtcaga cgggaagcgc gacagacccc actacaacta ctatgcaca ctgctcacc tgctcatcgc tgcctatcgc ttcgggcaacg tgcgtgtgtg catggctgtg tccgcgaga aggcgctgca gaccacacc aactacctga tgcacgct cgcagtggcc gacctcctcg tgcacact ggctatgccc tgggttgtct acctggaggt ggtaggtgag tggaaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgccc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctcctgccca ctcctctcg gactcaataa cgcagaccag aacgagtgca tcattgccaa cccggccttc tggttctact cctccatcgt ctctctctac gtgcccttca ttgtcacct gctggtctac atcaagatct acattgtcct cgcagacgc cgcaagcgag tcaacaccaa acgcagcagc cgagctttca gggcccacct gaggggtcca ctaaaggga actgtactca ccccgaggac atgaactct gcaccttat catgaagtct aatgggagtt tcccagtgaa caggcgaga gtggaggctg cccggcgagc ccagagctg gagatggaga tgctctccag caccagccca ccgagagga cccggtacag ccccatccca ccagccacc accagctgac tctcccagc ccgtccacc atggtctcca cagcactccc gacagcccc gaaatggg gaagatggg catgccaag accacccaa gattgccaag atctttgaga tccagacct gccaatggg aaaacccgga cctccctcaa gacctagc cgtaggaaag tctcccaga gaaggagaag aaagccactc agatgctgc cattgtctc ggcgtgttca tcattctgt gctgccttc ttcatcac acatcctgaa catacactgt gactgcaaca tcccgcctgt cctgtacagc	Homo sapiens
101	1242	Dopamine Receptor D2	NM_000795	agagcctggc caccagctgg ctccacgcc ctgatggatc cactgaatct gtcctggtat A gatgatgatc tggagaggca gaactggagc cggcccttca acgggtcaga cgggaagcgc gacagacccc actacaacta ctatgcaca ctgctcacc tgctcatcgc tgcctatcgc ttcgggcaacg tgcgtgtgtg catggctgtg tccgcgaga aggcgctgca gaccacacc aactacctga tgcacgct cgcagtggcc gacctcctcg tgcacact ggctatgccc tgggttgtct acctggaggt ggtaggtgag tggaaaattca gcaggattca ctgtgacatc ttcgtcactc tggacgtcat gatgtgcacg gcgagcatcc tgaacttgtg tgccatcagc atcgacaggt acacagctgt ggccatgccc atgctgtaca atacgcgcta cagctccaaag cgccgggtca ccgtcatgat ctccatcgtc tgggtcctgt ccttcacct ctcctgccca ctcctctcg gactcaataa cgcagaccag aacgagtgca tcattgccaa cccggccttc tggttctact cctccatcgt ctctctctac gtgcccttca ttgtcacct gctggtctac atcaagatct acattgtcct cgcagacgc cgcaagcgag tcaacaccaa acgcagcagc cgagctttca gggcccacct gaggggtcca ctaaaggga actgtactca ccccgaggac atgaactct gcaccttat catgaagtct aatgggagtt tcccagtgaa caggcgaga gtggaggctg cccggcgagc ccagagctg gagatggaga tgctctccag caccagccca ccgagagga cccggtacag ccccatccca ccagccacc accagctgac tctcccagc ccgtccacc atggtctcca cagcactccc gacagcccc gaaatggg gaagatggg catgccaag accacccaa gattgccaag atctttgaga tccagacct gccaatggg aaaacccgga cctccctcaa gacctagc cgtaggaaag tctcccaga gaaggagaag aaagccactc agatgctgc cattgtctc ggcgtgttca tcattctgt gctgccttc ttcatcac acatcctgaa catacactgt gactgcaaca tcccgcctgt cctgtacagc	Homo sapiens	

102	1242	Dopamine Receptor D2	NP_000786.1	<p> gctttcacgt ggctgggcta tgtaacagc gcgtgaacc ccatcatcta caccaccttc aacattgagt tccgcaaggc cttcctgaag atcctccact gctgactctg ctgcctgccc gcacagcagc ctgcttccca cctccctgcc caggccggcc agctcacc ttgcgaaccg tgacagagaa ggcttggttg gatggcctc ctctctcttag ccccggaagg cctgcagtg ttcgcttgcc tccatgctcc tcactgccc cacacctca ctctgccagg gcagtgttag tgagctgggc atggtaccag ccctggggct ggccccagct caggggcagc tcatagatc ccccctcca cctccagtc cctatcctt ggaccaaa atgcagcgc cttccttgac cttctctgg ggctctagg ttgctgagc ctgagtcag gccagagggc tgagtttct ctttgtgggg ctgtgctgg agcaggcggg gggagagat ggacagttca caccctgcaa ggccacacag aggcaagcaa gctctctgc cgagagagca ggcaacttca gtccctggag acctatgtaa ataccagact gcaggttggc cccagagat tcccaagcca aaaccttag ctccctccg caccctgat tggacctcta cttccaggc tagtcggac ccacctcacc ccgttacagc tcccaagtg gttcccat gctctgagaa gaggagccct catcttgaag ggccacagag ggtctatgg gagaggaact ccttgcccta gccaccctg ctgccttctg acggccctgc aatgtatccc ttctcacag acatgttggc cagcctgggg cctggcaggg aggtcagggc ctggaaactct atctggcct gggttaggga catcagaggt tctttgaggg actgcctctg ccacactctg acgcaaaacc acttctctt tctattcct ctggccttc ctctctctg ttccctctc cttccactg cctgcctta gaggagcca cggctaagag gctgctgaaa acctctctggc ctggcctggc cctgcctga ggaaggagg gaagctgcag cttgggagag cccctgggc ctgactctg taactcact atccgatgca ccaactaat aaaacttga cgagtcacct tc </p>	Homo sapiens
103	1243	Dopamine Receptor D3	NM_000796	<p> taaagaaaac ggatacattc gaaagcagct atgaacatg cactaaggctc taataggaa A gctggaaaaag cagcactcaa gtaatttcac cttagaggca aaaaagggtg attctttct gttcatttca tagttctga gtccctgaaa aggcacaggt tgccttgctt gggatgtct gctgtcagta aatggctgca ggagccgaag tggtaacctc ctgggtctcc agaaatcaga agaaaattt aggaagccc ttggcatcac gcactccct ctgggctatg gcactctga gtcagctgag tagccacctg aactacact gtggggcaga gaactccaca ggtgccagcc agggccgcc acatgcctac tatgacctc cctactgcgc gctcactctg gccatgctct tcggcaatgg cctgggtgctc atggctgtgc tgaaggagcg ggccctgag actaccacca actacttagt agtgagcctg gctgtggcag acctgctggt ggccacctg gtgatgccct gggtgggata cctggagggt acaggtggag tctggaattt cagccgcat tgcgtgtgatg ttttgtcac cctggatgtc atgatgtga cagccagcat cctaatctc tgtgccatca gcatagacag gtacactgca gtggtcatgc ccgttacta ccagcatggc acgggacaga </p>	Homo sapiens

104	1243	Dopamine Receptor D3	NP_000787.1	<p>gctcctgtcg ggcgctggcc ctcatgatca cggcgcgtcg ggtactggcc ttgtgtgtgt cctgcectct tctgtttggc tttaatacca caggggaccc cactgtctgc tccatctcca acctgattt tgtcatctac tcttcagtgg tctcttcta cctgcccctt ggagtgaatg tccttgctta tgcagaatc tatgtgtgc tgaacaacaa gtagcggaaa aggatectca ctgacacaga cagtcagtgc aacagtgtca ggcctggcct ccccaacaa accctctctc ctgacccggc acatctggag ctgaagcgtt actacagcat ctgccaggac actgccttgg gtggaccagg cttccaagaa agaggaggag agttgaaagt agaggagaat actcggaatt ccctgagtc caccatagcg cccaagctca ccttagaagt tcgaaaaact agcaatggca gattatcgac atctttgaag ctggggcccc tgaacctcg gggagtcca cttcgggaga agaaggcaac ccaaatgggt gccattgtgc ttggggcctt cattgtctgc tggtgcctt tcttcttgac ccatgttctc aataccact gccagacatg ccacgtgtcc ccagagcttt acagtggcac gacatggctg ggctacgtga atagcgcct caacctgtg atctatacca ccttcaatat cgagttcccg aaagccttc tcaagatcct gtcttgctga gggagc MASLSQLSSH LNYTCGAENS TGASQARPHA YYALSYCALI LAIVFNGLV CMAVLKERAL P QTTNYLVVS LAVADLLVAT LMPWVYLE VTGGWNFSR ICCDVFVTL DVMCTASILN LCAISIDRYT AVMPVHYQH GTGQSSRRV ALMITAVWL AFVSCPLLF GFNTTGDPV CSIINPDEVI YSSVSYFLP FGVTVLYAR IYVVLKQRR KRILTRQNSQ CNSVRPGFPQ QTLSPDPAHL ELKRYYSICQ DTALGGPGFQ ERGELKREE KTRNSLPTI APKLSLEVRK LSNGRLSTSL KLGPLQPRGV PLREKATQM VAIVLGAFIGV CWLPFFLTHV LNTHCQTCHV SPELYSATW LGYVNSALNP VIYTFNIEF RKAFILKILSC</p>	Homo sapiens
105	1244	Dopamine Receptor D4	NM_000797	<p>atggggaacc gcagacccg gcagcggac gggctgtctg cttgggcggc gccggcgcg A gggcatctg cgggggcac tgcggggctg ctcgggcagg gcgcggcg cttgggtggg ggcgtgctg tcatcgccg ggtgtctcg ggaactcgc tctgtgtgt ggcgtggcc accgagcgc cctgcagac gccacacaa tcttctatg tgagcctgc gccgcgcgac ctctcctcg ctctcctggt gctgcgcgc ctcgtctact ccgaggtcca ggtggcgcg tggtgtctga gcccgcctt gtgcgacgc ctcattggca tggacgtcat gctgtgcacc gcctccatct tcaacctgtg cgcacacgc gtggacaggt tctgtggcgt gccgtgccc ctgcgctaca accggcaggg tggagccgc cggcagctgc tctcatcgg cgcacgtgg ctgctgtccg cggcgtggc ggcccccga ctgtgcggc tcaacagat gcgcggccgc gaccccgccg tgtgcgcct ggagaccgc gactacgtg tctactctc cgtgtgtctc ttcttctac cctgcccgt catgtgtctg ctctactgg ccacgttccg cggcctgcag cgtgggagg tggcagctg cgcacagctg cgcggccgc cgcggccgc acccagggc cctggccgc cttcccccac gccacccgc cccgcctcc cccagacc cctgcggccc gactgtgccc ccccgccc cgccttccc cggggtccc cgggcccga ctgtgcgccc gccgcggccg gctccccc ggaccctgc ggcgccgact gtgcgcccc cgcgcggc ctcccccag accctgcgg ccccgactgt ggcggccccc cgcggggt tccccgggt cctgcggc cgcactgtg ccccccgc cccggcctcc cccaggacc cttgcggccc gactgtgccc ccccgccc cgcctcccc cggaccctc cgggaccct cgtgtgtccc cccgacgccc tcagagccc cgcgtccca cccagacc caccgagac ccgagagg cggcgtgcca agatcacgg ccgggagcg aaggccatga ggtcctgcc ggtgtggtc ggggccttc tctgtgtgtg gacgcccctt tctgtgtgtg acatcacgca ggcgtgtgt</p>	Homo sapiens

106	1244	Dopamine Receptor D4	NP_000788.1	<p>cctgctgct cctgcccc gcgctggtc agcgcgtca cctggctggg ctacgtcaac agcgcctca acccgtcat ctacactgtc tteaagccg agttccgcaa cgtcttcgcg aaggccctgc gtgcctgctg ctgagccggg caccocggg cgtgatggcc agcctcagg gaccaaggag atggggaggg cgcttttga cgttaattaa acaattcct tccc</p>	Homo sapiens
107	1267	Opioid Receptor, delta 1 (OPRD1)	NM_000911	<p>MGNRSTADAD GLLAGRGPA GASAGASAGL AGQAAALVGVLLIGAVLA GNSLVCVSV A P TERALQTPTN SFIVSLAAD LLLALLVLP FVYSEVQGA WLLSPRLCDA LMAMDVMLCT ASIFNLCAIS VDRFVAVP LRYNRQGS RQLLLIGATW LLSAAVAAPV LCGLNDVRGR DPAVCRLEDR DYVYSSVCS FFLPCPLMLL LYWATFRGLQ RWEVARRAKL HGRAPRRPSG PGPSPPTPA PRLPQDPCG DCAPPAPGLP RGCPGDCAP AAPGLPPDPC GPDCAPPAPG LPQDFCGPDC APPAPGLPRG PCGPDCAPPA PGLPQDPCG DCAPPAPGLP PDPCGSNCAP PDAVRAAALP PQTTPQTRRR RRAKITGRER KAMRVLPVVV GAFLLCWTFP FVWHITQALC PACSVPPRLV SAVTWLGYVN SALNPVIYTV FNAEFNRVFR KALRACC</p>	Homo sapiens

108	1267	Opioid Receptor, delta 1 (OPRD1)	NP_000902.1	ccaggaaggc ggggcttcaa ccttgagaca gcttcggttt ctaacttgga gcccgaactt cggagttggg gggctcgggg ccc AVGLLGNLV MFGIVRYTKM KTATNIYIFN LALADALATS TLPFQSAKYL METWPFGE LL CKAVLSIDYY NMFTSIFILT MMSVDRIYAV CHPVKALDER TPAKAKLINI CIWVLASGVG VPIMMAVTR PRDGAUVCM L QFPSPSWYMD TVTKICVFLF AFWVPILIT VCYGLMLLRL RSVRLLSGSK EKDRSLRRI T RMVLVVVGAF VVCWAPIHIF VIVWTLVDID RRDPLVVAAL HLCIALGYAN SSLNPVLYAF LDENFKRCFR QLCRKPCGRP DPSSFSPRE ATARERTAC TPSDPGGGR AA	Homo sapiens
109	1424	Duffy Antigen	NM_002036	gggctgaac caaacggtgc catggggaac tgtctgcaca gggtagtat ggggccaggc A cccagagtcc cttatcccta tgccctcat tcccctgct gttgcccc cagtctttat atctcttcc tttctctcct atctttctc cctcccgc ttttctct tcttcaaaag tcttttctc tctctcttc ctatgctagc ctctagatc cctcttggt cctcccttt gcctttgagt cagttccatc ctggtctctt ggtgcctttc ctctgacct tgcactgctc ctccagcccc agctgccccg gcttccccag gactgttctc gctccggctc ttcaggctcc ctgctttgtc cttttccact gtccgcactg catctgactc ctgcagagac cttgttctcc caccgacct tctctctgt cctccctcc cactgccc tcaattccca ggagactctt ccggtgaac tctgatggc tctctgggt atgtctcca ggcggagctc tcccccaa ctgagaactc agtcagctg gactcgaag atgtatgaa tcttctcat ggttgaatg attccttccc agatggagac tatgatgcca acctggaagc agctgcccc tgcactcct gtaacctgct ggatgactct gcactgccct tctcatcct caccagtgc ctgggtatcc tagctagcag cactgtctc tctatgctt tccagacctc ctccgctgg cagctctgcc ctggctggcc tgtctcggca cagctggctg tgggcagtgc cctcttcagc attgtgtgc ccgtcttggc cccagggcta ggtagcactc gaagctctgc cctgtgtagc ctgggctact gtgtctgcta tggctcagcc ttggcccagg ctttgcctg aggtgacct gctccctgg gccacagact gggcgaggc caggtccccag gctcaccct ggggtccact gtgggaattt ggggagtggc tggcctactg acaactgctg tccacctggc cagtgtgtct tctggtggac tctgcacct gatatacagc acggagtga aggtcttga gccacacac actgtagcct gtcttgccat ctttgccttg ttgccaattg gtttgtttgg agccaagggg ctgaagaagg cattgggtat ggggccaggc cctgggatga atactcttg ggcctggttt atttctggt ggctcctatg ggtggttcta ggaactggatt tctggtgag gtccaagctg ttgctgtgt caacatgtct gggccagcag gctctggacc tgcgtgtgaa cctggcagaa gccctggcaa ttttgcactg tgtgctacg cccctgctc tgcctctatt ctgccaccag gccaccgca ccctcttggc ctctctgccc ctccotgaag gatggtcttc tcatctggac accctggaa gcaaatccta gtctcttcc cactgtcaa cctgaattaa agtctacct gccttgtg NP_002027.1 MASSGYVLQA ELSPTENSS QLDFFDWN S YGVNDSFPD GDYDANLEAA APCHSCNLLD P DSALPFFILT SVLGILASST VLFMLRPLF RWQLCPGPV LAQLAVGSAL FSIVVPVLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLG CHASLGHRLG AGQVPGLTIG LTVGIWGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAI F VLLPLGLFGA KGLKKALGMG PGFWNNIWA WFIFWPHGV VLGLDFLVR KLLLLSTCLA QQALDLLNL AEAAILHCV ATPLLLALFC HQATRTLLPS LPLPEGWSSH LDTLGSKS	Homo sapiens
110	1424	Duffy Antigen	NP_002027.1	gcaaatccta gtctcttcc cactgtcaa cctgaattaa agtctacct gccttgtg NP_002027.1 MASSGYVLQA ELSPTENSS QLDFFDWN S YGVNDSFPD GDYDANLEAA APCHSCNLLD P DSALPFFILT SVLGILASST VLFMLRPLF RWQLCPGPV LAQLAVGSAL FSIVVPVLAP GLGSTRSSAL CSLGYCVWYG SAFAQALLG CHASLGHRLG AGQVPGLTIG LTVGIWGVAA LLTLPVTLAS GASGGLCTLI YSTELKALQA THTVACLAI F VLLPLGLFGA KGLKKALGMG PGFWNNIWA WFIFWPHGV VLGLDFLVR KLLLLSTCLA QQALDLLNL AEAAILHCV ATPLLLALFC HQATRTLLPS LPLPEGWSSH LDTLGSKS	Homo sapiens

111	1451	EBV-Induced Gene 2	NM_004951	ggaattccct gatatacacc tggaccacca ccaatggata tacaatggc aaacaatttt A actcgcct ctgcaactcc tcagggaaat gactgtgacc tctatgcaca tcacagcacg gccaggatag taatgcctct gcattacagc ctgctcttca tcattgggct cgtgggaaac ttactagcct tggctgctcat tgttcaaac agaaaaaaa tcaactctac caccctctat tcaacaaatt tgggtgatttc tgatatactt ttaccaccg ctttgcctac acgaatagcc tactatgcaa tgggctttga ctggagaatc ggagatgcct tgtgtaggat aactgcgcta gtgttttaca tcaacacata tgcagggtgtg aactttatga cctgcctgag tattgacgc ttcattgctg tgggtgaccc tctacgtac acaagataa aaaggattga acatgcaaaa ggcgtgtgca tatttgtctg gattctagta ttgctcaga cactccact cctcatcaac cctatgtcaa agcaggaggc tgaagattt acatgcatg actatccaaa ctttgaagaa actaaatctc ttccctggat tctgctggg gcattgttca taggatatgt acttccactt ataatcattc tcatctgcta ttctcagatc tctgcgaac tcttcagaac tgcacaaaca aaccactca ctgagaaatc tgggttaaac aaaaggctc tcaacacaaat tattcttatt attgttgtgt ttgtctctctg ttccacacct taccatgttg caattattca acatatgatt aagaagcttc gtttctctaa ttctctggaa ttaggccaaa gacattcgtt ccagatttct ctgcacttta cagtatgcct gatgaacttc aattgctgca tggacccttt tatctacttc tttgcattga aagggtataa gagaaggtt atgaggatgc tgaacggca agtcagtgtg tcgatttcta gtgctgtgaa gtcagccct gaagaaaat cactgaaat gacagaaaag cagatgatga tacattccaa gtcttcaaat ggaagtgaa atggattgta ttttggttta tagtgacgta aactgtatga caaactttgc agacttccc ttataaagca aaataatgt tcagcttcca attagtattc ttttatattt ctttcatgtg gcaatttccc atctccaact cggaagtaag ccaagagaa caacataaag caacaacat aaagcacaat aaaaatgcaa ataatatatt tcatttttat ttgtaacga atacacaaa aggagcgct cttaataact cccaatgtaa aaagttttgt ttaataaaa aatttaatta ttatttcttg ccaacaaatg gtgagaaagg actgaataga ttatatattg ccagatgta atactgtaac atacttttta aataacatat ttcttaaatc caaatttctc tcaatgttag atttaattcc ctcaataaca ccaatgtttt gtttgtttc gtctgggtc ataaaacttt gtaaggaac tcttttgga taagagcag gatgctgc	Homo sapiens
112	1451	EBV-Induced Gene 2	NP_004942.1	MDIQANNFT PPSATPQND CDLYAHSTA RIVMPLHYSL VFIIGLVGNL LALVIVQNR P KKINSTLYS TNLVISDILF TALPHTRIAY YAMGFDWRIG DALCRITALV FYINTYAGVN FMTCLSIDRF IAVVHPLRYN KIKRIEHAKE VCIFWILVF AQTLPILLINP MSKQEAERIT CMEYFNFEET KSLPWLILGA CFIGYVLPPLI IILICYSQIC CKLFRTAKQN PLTEKSGVVK KALNTILILII VVFLCFTPY HVALIOHMIK KLRFSNFLEC SORHSFQISL HFTVCLMNFN CCMDPFIYFF ACKGYKRKVM RMLKRQVSVS ISSAVKSAPE ENSREMTETQ MMIHKSNSNG K	Homo sapiens
113	1486	Endothelin B Receptor	NM_000115	gagacattcc ggtgggggac tctggccagc ccgagcaacg tggatcctga gagcactccc A aggtaggcat tgcgccggt ggagcgctt gccagagcag tgtgtggcag gccccggtgg aggatcaaca cagtggctga acactgggaa ggaactggta cttggagctt ggacatctga aacttggctc tgaactgcg cagcggccac cggagcgctt ctggagcagg tagcagcatg cagcgcctc caagtctgtg cggacgccc ctggttctgc tggttcttgc ctgcggcctg tcgcgcatct ggggagagga gagaggcttc ccgcctgaca gggccactcc gcttttgcaa	Homo sapiens

accgcagaga taatgacgcc accactaag acctatggc ccaagggttc caacgccagt
ctggcgcggt cgttggeacc tgcggaggtg cctaaaggag acaggacggc aggatctccg
ccacgcacca tctcccctcc ccgctgcca ggacctatcg agatcaagga gactttcaaa
tacatcaaca cgggttggtc ctgccttggt ttcgtgctgg gcatcatcgg gaactccaca
cttctgagaa ttatctacaa gaacaagtgc atgcgaacg gtcccaatat cttgatcgcc
agcttggctc tgggagacct gctgcacatc gcatgtgta agctgggtgc ttctacacag
ctgctggcag aggactggcc atttgagct tgtctgagt ctatgtgctc tgagtatga cagatatcga
aaagctcccg tgggaatcac tttgagtag aattaaagga attgggggtc caaatggac agcagttaga
gtbgttgctt cttggagtag cttctgggtt ctctgtggtt ctgaagccat aggttttgat
attgttttga tttgggtggt cttctgggtt ctgcgaatct gcttgcttca tcccgttcag
ataattacga tggactacaa aggaagtatt ctgcgaatct gcttgcttca tcccgttcag
aagacagctt tcatgcagtt ttacaagaca gcaaaagatt ggtggctgtt cagtttctat
ttctgcttgc cattggccat cactgcattt ttatatcac taatgacctg tgaatggtg
agaagaanaa gtggcatgca gattgcttta atgatcacc taaagcagag acgggaagtg
gcaaaaacgg tcttttgctt ggtccttgc ttgcccctct gctggcttcc cttcacctc
agcaggattc tgaagctcac tctttataat cagaatgac ccaatagatg tgaacttttg
agctttctgt tggatttggg ctatatgtgt atcaacatgg cttcactgaa ttccgtcatt
aacccaattg ctctgtattt ggtgagcaaa agatccaaaa actgctttaa gtcagtctta
tgctgctggt gccagtcatt tgaagaaaaa agtcccttgg aggaagaaga gtcgtgctta
aagttcaaa ctaatgatca cggatatgac aacttccgtt ccagtaataa atacagctca
tcttgaaaaga agaactattc actgtatttc attttcttta tattggaccg aagtcattaa
aacaanaaga aacatttgcc aaaaacaaac aaaaactat gtatttgcac agcacactat
taaaatatta agtgtaatta tttaacact cacagtaca tatgacatt tatgagctgt
ttacggcatg gaaagaaaat cagtgggaat taagaaagcc tgcgtgtgaa agcatttaat
ttttacagt tagcacttca acatagctct taacaacttc caggatattc acacaact
taggcttaa aatgagctca ctcagaattt ctattcttcc taaaaagaga ttattttta
aatcaatggg actctgat ataggaagaa taagtacatg taaaacagaa cttttaaatg
aagcttaaat tactcaattt aaaattttaa aatcctttaa acaactttt caattaatat
tatcacacta ttatcagatt gtaattagat gcaaatgaga gacagttta gttgttgcat
ttttcgga ca tggaaacat taaatgac aggggggagt aacagaaaga gcaaggctgt
ttttgaaaat cattacactt tcaactagaag ccaaacctc agcattctgc aatatgtaac
caacatgtca caaacaagca gcatgtaaca gactggcaca tgtgccagct gaatttaaa
tataatactt ttaaaaaagaa aattattaca tcccttacct tcagttaaga tcaaacctca
caaagagaaa tagaatgtt gaaaggctat cccaaaagac ttttttgaat ctgtcatca
cataccctgt gaagacaata ctatctcaa ttttttcagg attattaaaa tcttctttt
tcactatcgt agcttaaaact ctgttttggt ttgtcatctg taaatactta cctacataca
ctgcatgtag atgattaaat gagggcaggc cctgtgctca tagctttacg atggagagat
gccagtgacc tcataataaa gactgtgac tgcctgggtg agtgtccaca tgacaaaagg
gcaggtagca cctctctca cccatgctgt ggttaaaatg gttcttagca tatgtataat
gctatagtta aaatactatt tttcaaaatc atacagatta gtacatttaa cagctacctg
taaagcttat tactaatttt tgtattattt ttgtaaatag ccaatagaaa agtttgcttg

114	1486	Endothelin B NP_000106.1 Receptor	<p> acatggtgct tttctttcat ctgaggcga aactgctttt tgagaccgta agaactctt agctttgtgc gttctgtgct aattttata tcttctaagc aaagtgcctt aggatagctt gggatgat gtgtgtgaaa gtatgtacaa gagaaacgg gagagagagg aaatgaggtg gggttgagg aaacctatg ggacagattc ccattcttag cctaacttgc gtcattgctt cgtcacatca atgcaaaaagg tcttgatttt gtccagcaa aacacagtcg aatgttctca gagtgaactt cgaataaat tgggcccagg agctttaact cgttcttaaa atatgcccga atctttactt tgtttttctt ttaataggct gggccacatg ttggaataaa gctagtaatg tgtttttctg tcaatatga atgtgatggt acagtaaac aaacccaac aatgtggcca gaaagaaga gcaataataa ttaattcaca caccatattg attctattta taaatcacc acaaacttgt tctttaattt catcccaatc agcttttcag aggcctgtta tcatagaagt cattttagac tctcaatttt aaattaattt tgaatcacta atcttttcac agtttattaa tatatttaat tttctattta attttagatt atttttatta ccatgtactg aatttttaca tcttgatacc ctttctctct ccatgtcagt atcatgtct ctaattatct tgccaaattt tgaactaca cacaataagc atacttgcat tatttataa aaattgcat tcagtggctt tttaaaaaa atgttttgatt caaaacttta acatactgat agtaagaaa caattataat ttctttacat actcaaaacc agatagaaa aggtgctat cgttcaactt caaacatgt ttcctagtat taaggacttt aatatagcaa cagacaaaat tattgttaac atggatgta cagctcaaaa gattataaa agattttaac ctattttctc cctattatc cactgcta gtgatgtat gttcaaacac cttttagtat tgatagatta catatggcca aaggaataca gtttatagca aaacatgggt atgtgttagc taacttata aaagtgtaat ataacaatgt aaaaaattat atactggga ggttttttgg ttgctctaaa aggtctatag ttactgattt tttattatgt aagcaaaacc aataaaaatt taagtttttt taacaactac cttatttttc actgtacaga cactaattca ttaataacta attgattgtt taaaagaaat ataaatgtga caagtggaca ttatttatgt taaatataca attatacgc aagtatgaag ttattcaatt aaaatgccac atttctggtc tctggg </p>	Homo sapiens
115	1488	Endothelin A NM_001957 Receptor	<p> SLARSLAPAE VPKGDRTAGS PPRISPPPC QGPIETKETF KYINTWVSV VFLGIIGNS TLRLIYKNK CMRNGPNILI ASLALGDLIH IVIDIPINVY KLIAEDWVPG AEMCKLVPFI QKASVGITVL SLCALSIDRY RAVASWSRIK GIGVPKWTAV EIVLIWVSV VLAVPEAIGF DIITMDYKGS YLRICLLHPV QKTAQMIFYK TAKDWLFSF YFCLPLAITA FFYTLMTCEM LRKKSQMQIA LNDHLKQRR VAKTVFCLVL VFALCWLPPLH LSRLKLTLY NQNDPNRCEL LSFLLVLDYI GINMASLNSC INPIALYLV KRFKNCFKSC LCCWCQSFE KQSLEEKQSC LKFKANDHGY DNFSSNKYS SS </p>	Homo sapiens

caagatggaa accottggc tcaggggcatc cttttgctg gcactgggtg gatgtgtaat
cagtgataat cctgagagat acagcacaaa tctaagcaat catgtgggatg atttcaccac
ttttctggc acagagctca gcttcctggg taccactcat caaccacta atttggtcct
accagcaat ggtcaatgc acaactattg cccacagcag actaaaaatta cttcagcttt
caaatacatt aacactgtga tatcttgtac tattttcatc gtgggaatgg tggggaatgc
aactctgctc aggatcattt accagaacaa atgtatgag aatggcccca acgcgtgat
agccagtctt gccttggag accttatcta tgtggtcatt gatctcccta tcaatgtatt
taagtgtctg gctgggcgt ggccttttga tcacatgac ttggcgtat ttctttgcaa
gctgtcccc tttttgcaga agtccctggg ggggacacc gtctcaacc tctgcctct
tagtgttgac aggtacagag cagttgcctc ctggagtcgt ttccagggaa ttgggattcc
tttggttaact gccattgaaa ttgtctccat ctggatcctg tccctttacc tggccattcc
tgaagcgatt ggcttcgtca tggtaacctt tgaatatagg ggtgaacagc ataaaacctg
tatgtcfaat gccacatcaa aattcatgga gtctaccaa gatgtaaagg actggtggct
cttogggttc tatttctgta tgccttggg gtgcactgcg atcttctaca cctcatgac
ttgtgagatg ttgaacagaa ggaatggcag cttgagaatt gccctcagtg aacatcttaa
gcagcgtcga gaagtggcaa aacagtttt ctgcttgggt gtaatttttg cttcttgctg
gttccctctt cacttaagcc gtatatgaa gaaaactgtg tataacgaaa tggacaagaa
ccgatgtgaa ttacttagtt tcttactgct catgatttac atcggtatta acttggcaac
catgaattca tgtataaacc ccatagctct gttttttgtg agcaagaaat ttaaaaattg
tttccagtca tgcctctgct gctgctgtta ccgtccaaa agtctgata cctcggtccc
catgaacgga acaagcatcc agtgaagaa ccacgatcaa acaacccaca acacagaccg
gagcagccat aggcacagca tgaactgacc acccttagaa gcactcctcg gtactcccat
aatcctctcg gagaaaaaa tcacaaggca actgtgactc cgggaatctc ttctctgctc
cttcttccct aattcactcc cacaccaga agaaatgct ttccaaaacc gcaaggtaga
ctggtttatc caccacaac atctacgaat cgtactctt taattgatct aattacata
ttctgctgtg tgtattcagc actaaaaaat ggtgggagct gggggagaaat gaagactgtt
aaatgaaacc agaaggatat ttactacttt tgcatgaaaa tagagctttc aagtacatgg
ctagctttta tggcagttct ggtgaatgtt caatgggaac tggtcacccat gaaactttag
agattaacga caagattttc tacttttttt aagtatttt ttgtccttca gccaaacaca
atatgggctc aggtcacttt tatttgaat gtcatttggt gccagtattt tttaactgca
taatagccta acatgattat ttgaacttat ttacacatag ttgaaaaaaa aaaagacaaa
aatagtattc aggtgagcaa ttagatttagt attttccacg tcactattta tttttttaa
acacaaattc taaagctaca acaataacta caggccctta aagcacagtc tgatgacaca
tttggcagtt taatagatgt tactcaaga attttttaag aactgtattt tatttttaa
atggtgtttt attacaaggg accttgaa ca tgttttgtat gttaaattca aagtaatgc
ttcaatcaga tagttctttt tcacaagttc aatactgitt ttcatgtaaa ttttgtatga
aaaatcaatg tcaagtacca aatgttaat gtatgtgtca tttaactctg cctgagactt
tcagtgcaat gtatatagaa gtctaaaca cacctaaagag aaaaagatcg aattttcag
atgattcga aattttcatt caggtatttg taatagtgac atatatatg atatacatat
cacctcctat tctcttaatt ttgttaaaa tgttaactgg cagtaagtct ttttgtatca
ttcccttttc catataggaa acataatttt gaagtggcca gatgagtta tcatgtcagt

1116	Endothelin A Receptor	NP_001948.1	gaaaaataat taccacaaa tgcaccagt aacttaacga ttcttcactt ctctgggtttt tcagtatgaa cctaaactcc caccacaaca tctccctccc acattgtcac catttcaaaa ggccacagt gacttttgtt gggcattttc ccagatgttt acagactgtg agtacagcag aaaatctttt actagtgtgt gtgtgtatat atataaaca ttgtaaattt ctcttagccc atttttctag actgtctctg tggaatatat ttgtgtgtgt gatatatgca tgtgtgtgat ggatgtatg gatttaactt aatctaataa ttgtgccccg cagttgtgcc aagtgcata gtctgagcta aaatctaggt gattgttcac catgacaacc tgcctcagtc catttaacc ttagcaacc ttctgcattc ataaatcttg taatcatgtt accattacaa atgggatata agaggcagcg tgaagcaga tgagctgtgg actagcaata tagggttttg ttgtgttgtt tggttgata aagcagtatt tgggtcataa ttgtttcctg tctggagca aagtcatta catttgaag tattatatgt ttcttatcct caattcaatg tggatgaa attgccaggt tgctgatat ttcttcaga ctcccgaga cagattgtcg ataataaatt agttaagata attgtgtggg ccataatttta ggacaggtaa aataacatca ggtccagtt gcttgaattg caagctaag aagtactgcc ctttgtgtg ttagcagtc aatctattat tccactggcg catcatatgc agtataatat gctataata taagccatag gttcacacca ttgttttag acaattgtct tttttcaag atgctttgtt tcttccatg gaaaaaaatg cattttataa attcagaaa tcatagattt ctgaaggcgt caactgtcat tttatttatg gactgttaag taactgtgtt ttactagcag gaattattcc aattctacc ttactacat ctttcaaca agtaactttg tagaaatgag ccagaagcca aggccctgag ttggcagtg cccataagt taaaaaaaa gtttacagaa acctt	Homo sapiens
1117	Calcium-Sensing Receptor (CASR)	NM_000388	caacaggcac ctggctgcag ccaggagga cgcacgccc ttctgcgcag gagagtggaa A ggaggagct gtttgcagc accgaggtct tgcggcacag gcaacgcttg acctgagctt tgcagaatga aaggcatcac aggagcctc tgcattgatg ggcttccaaa gactcaagga ccaccacat tacaagtctg gattgaggaa ggcagaaaat gagattcaaa caccagctct tctattattt tattaatcaa tctgtagaca ttgttccca ctgcaggag tgaactgctc caaggagaa acttctggga gctccaaaac tctagctgt tctatccctt gccctggaga gacggcagaa ccattggcatt ttatagctgc tgcgtggctc ttctggcact cactggcac acctctgctt acgggcagaa ccagcagcc caaaagaaat gggacattat ccttgggggg ctctttccta ttcaattttg agtagcagc aaagatcaag atctcaaatc aagccggag tctgtggaat gtatcaggtt taatttccgt ggttttcgct ggttacagc tatgatattt gccatagagg agataaacag cagccagcc ctcttccca acttgacgt gggatcacgg atatttgaca ctgcaaacac cgtttctaag gcttggaa gcaacctgag tttgttgtt caaaacaaa ttgattcttt gaacctgat ggttctgca actgctcaga gcacattccc	Homo sapiens

tctacgattg ctgtggtggg agcaactggc tcaaggctct caacggcagt ggcaaatctg
ctgggctct totacattcc ccaggtcagt tatgctcct ccagcagact cctcagcaac
aagaatcaat tcaagtcttt cctccgaacc atcccaatg atgagacca ggcactgccc
atggcagaca tcatcgagta ttcccgctgg aactgggtgg gcacaattgc agctgatgac
gactatgggc ggccggggat tgagaaattc cgagagggaag ctgaggaaaag ggatatctgc
atcgacttca tgaactcat ctcccaqtac tctgatgag aagagatcca gcatgtggta
gagtgattc aaaattccac ggccaaagtc atcgtggtt ttccagtggt ccagatctt
gagccctca tcaaggagat tgtccggcgc atatcacgg gcaagatctg gctggccagc
gaggcctgg ccagctcctc cctgatgcc atccaggt tccgggaatt cctgaagaag
accattggat tgcctctgaa ggctgggcag atccaggt tccgggaatt cctgaagaag
gtccatccca ggaagtctgt ccacaatggt ttgccaagg agttttggga agaaacattt
aactgccacc tccaagaagg tgcaaaagga cctttacctg tggacacct tctgagaggt
cacgaagaaa gtggcgacag gtttagcaac agtcgacag ccttcgacc cctctgtaca
gggatgaga acatcagcag tgcgagacc ccttacctag attacagca ttacggata
tcttacaatg tgtacttagc agtctactcc attgcccacg ccttgcaaga tatataacc
tgtttacctg ggagagggct cttaccaat ggtcctctgt cagacatcaa gaaagttag
gctgggcagg tctgaagca ctaacgcat ctaaacttta caacaatat gggggagcag
gtgacctttg atgagtgtgg tgacctgggt gggaactatt ccatacaca ctggcactc
tcccagagg atggctccat cgtgtttaag gaagtgggt attacaacgt ctatgccaa
aaggagaaa gactctcat caacgagag aaaatcctgt ggagtgggt ctcagggag
gtgcccttct ccaactgcag ccgagactgc ctggcaggga ccaggaaag gatcattgag
ggggagccca cctgtgctt tgagtgtgtg gagtgcctg atggggagta tagtgatgag
acagatgcca gtgcctgtaa caagtgcaca gatgactct ggtccaatga gaaccaccc
tcctgcattg ccaaggagat cgagtttctg tctggagcgg agccctttgg gatcgactc
acctctttg ccgtgctggg cattttcctg acagcctttg tgctgggtgt gttatacaag
ttccgcaaca caccattgt caaggccacc aacgagagc tctcctacct cctcctcttc
tccctgctct gctgtcttc cagctcctg ttcttcctg gggagcccca ggactggacg
tgccgctgc gccagccggc ctttggcatc agcttcgtgc tctgcatctc atgcatcctg
gtgaaaaaca accgtgctc cctgtgtttt gaggccaaga tccccaccg cttccaccg
aagtgggtgg ggctcaact gcagttcctg ctggttttcc tctgcaactt catgcagatt
gtcatctgtg tgatctggct ctacacgcg cccccicaa gctaccgcaa ccaggagctg
gaggatgaga tcatctcat cactgccac gagggtccc tcatggccct gggcttctg
atcggctaca cctgcctgt ggctgcctc tgtttcttct ttgccttea gtcccgaag
ctgcccggaga acttcaatga agccaagttc atcaacttca gcagtctcat cttctcact
gtctggatct ccttcattcc agcctatgcc agaacctatg gcaagtttgt cctgcccgt
gagtgattg ccatcctggc agccagcttt ggcttgctgg cgtgcatctt cttcaacaag
atctacatca ttctctcaa gccatccgc aacaccatcg aggagtgctg ttgcagcacc
gcagctcacg ctttcaaggt ggctgcccg gccagctgc gccgcagcaa cgtctccgc
aagcgttcca gcagccttgg aggtccacg ggtccacc cctcctctc catcagcagc
aagagcaaca gcgaagacc atccacag ccgagaggc agaagcagca gcagcgtg
gcctaacc accaagagca gcagcagcag cctctgacc tcccacagca gcaacgatct

118	1598	Calcium- Sensing Receptor (CASR)	NP_000379.1	MAFYSCCVL LALTWHTSAY GPDQRAQKKG DIILGGLFPI HFGVAAKDQD LKSRPESVEC P IRYNFRGFRW LQAMIFAIEE INSSPALLPN LTLYGRIFDT CNTVSKALEA TLSFVAQNKI DSLNLDEFN CSEHIPSTIA VVGATGSGVS TAVANLLGLF YIPQVSYASS SRLLSNKNQF KSELRTPND EHQATAMADI IEYFRWNWVG TIAADDDYGR PGIEKFREEA EERDIDICDFS ELISQYSDDEE EIQRHVEVIO NSTAKVIVVF SSGPDLEPLI KEIVRRNITG KIWLASEAWA SSSLIAMPQY FHVVGTTIGF ALKAGQIPGF REFLLKKVHPR KSVHNGFAKE FWEETFNCHL QEGAKGPLPV DTFELRGHEES GDRFSNSTA FRPLCTGDEN ISSVETPYID YTHLRISYNV YLAVYSIAHA LQDIYTCPLG RGLFTNGSCA DIKKVEAWQV LKHLRHLNFT NNMGEQVTFD ECGDLVGNYS IINWHLSPED GSIVFEVGY YNVYAKKGER LFINEEKILW SGFSREVPFS NCSRDCLAGT RKGIIIEGET CCFECVECPD GEYSDTAS ACNKCDDDFW SNEHTSCIA KEIEFLSWTE PFGIALTLFA VLGIFLTAFV LGVFIKFRNT PIVKATNREL SYLLLFSLIC CFSSSLFFIG EPQDWTCLRL QPAFGISFVL CISCILVKTN RVLLVFEAKI PTSFHRKWWG LNLQFLLVFL CTFMQIVICV IWLYTAPPSS YRQLELEDEI IFITCHEGSL MALGFLIGYT CLLAACICFF AFKSRKLPEN FNEAKFITFS MLIFFIWIWIS FIPAYASTYG KFVSAVEVIA ILASFGLLA CIFFNKIYII LFKPSRNTIE EVRCSTAHA FKVAARATLR RSNVSRKRSS SLGSTGSTP SSSISSKSNs EDFPQPERQ KQOQLALTQ QEQQQQLTL PQQQRSQQP RCKQKVFCS GTVTFSLSD EPQKNAMAHG NSTHONSLEA QKSSDTLTRH QPLLPLQGE TDLDLTQVQET GLQGPVGGDQ RPEVEDPEEL SPALVVSSSQ SFVISGGST VTENVVNS ggcacagga acaacctatt tgcaagttg gcgcaaacat tcctgcctga caggaccatg A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatag acttggatgg gattgtggtg agagaaagtg aaatgaaaga taagtcttag tttggaagt ttacaactg aatgtttaa ctcaaataga cacaataat tggaagagtg gcaggtttg gaggatgaga caatcaactg ttgtgttag ccacgttagg ttgaaatgt ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaaagag agcatgatat tttaagccct gagactggat aatatcacct atagaaagac tatatagaga taagagaggt ggggaacaaag taaaagctgc gggacactcc taaattaga gtcaaattha gaggagaaa tactagcaa ggggactgaa aagcgtggc caattgagct tcaaatgcaa gtgaagtgt gtgtgtgta cattatcat ctcatggcac agggaaaaacg tgatttaagg agaaggaagc gtcccaatgg gaagaagaga tccaatggat cctctatcac gaagatattg agataagaac caatatggat ttgcaccacac tgcatttgca gccttgaggt cataagcatc ctacagaaaa tgcaccaggt gctgctggca agatgaaac	Homo sapiens
119	1676	Formyl Peptide Receptor- Like Receptor	NM_001462	ggcacagga acaacctatt tgcaagttg gcgcaaacat tcctgcctga caggaccatg A gacacaggtt gtagagatag agatggctct ggctgtgcat tcagcagatt ctgtagatag aattaatag acttggatgg gattgtggtg agagaaagtg aaatgaaaga taagtcttag tttggaagt ttacaactg aatgtttaa ctcaaataga cacaataat tggaagagtg gcaggtttg gaggatgaga caatcaactg ttgtgttag ccacgttagg ttgaaatgt ctacgggac ccgtggggag aggttatatc agactggagc accagagaga ggccaaggct gatagtttag atgaaaagag agcatgatat tttaagccct gagactggat aatatcacct atagaaagac tatatagaga taagagaggt ggggaacaaag taaaagctgc gggacactcc taaattaga gtcaaattha gaggagaaa tactagcaa ggggactgaa aagcgtggc caattgagct tcaaatgcaa gtgaagtgt gtgtgtgta cattatcat ctcatggcac agggaaaaacg tgatttaagg agaaggaagc gtcccaatgg gaagaagaga tccaatggat cctctatcac gaagatattg agataagaac caatatggat ttgcaccacac tgcatttgca gccttgaggt cataagcatc ctacagaaaa tgcaccaggt gctgctggca agatgaaac	Homo sapiens

120	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1676	caactttccc actcctctga atgaatatga agaagtgtcc tatgagtctg ctgggtacac tgttctgagg atcctcccat tgggtgtgct tggggtcacc ttgtctctcg gggctcctggg caatgggctt gtgatctggg tggctggatt ccggatgaca cgcacagtca ccacatctg ttacctgaac ctggccctgg ctgacttttc ttccacggcc acattaccat tccctattgt ctcocatggc atgggagaaa aatggccttt tggctgggtc ctgtgtaagt taattcacat cgtggtggac atcaacctct ttggaagtgt ccttttgatt ggtttcattg cactggaccg ctgcatttgt gtccctgcac cagctcgggc ccagaaaccg ggcactctga gtctggccat gaaggtgac gtccggacctt ggattcttgc tctagtctct acctggcag ttttctcttt tttagactaca gtaactattc caaatgggga cacatactgt actttcaact ttgcactcctg ggggtggacc cctgaggaga ggctgaaggt ggccattacc atgctgacag ccagagggat tatccggttt gtcattggct ttagcttgcc gatgtccatt gttgccatct gctatgggct caatgcagcc aagatccaca aaaagggcat gattaaatcc agcgtccct tacgggtcct cactgctgtg gtggcttctt tcttcactcg ttggtttccc ttccaactgg ttgcccctct gggcacccgc tggctcaaa agatgttgtt ctatggcaag tacaaaaatca ttgacatcct ggttaaccca acgagctccc tggccttctt caacagctgc ctcaaccoca tgccttacgt ctttgtggc caagacttcc gagagagact gatccactcc ctgcccacca gtctggagag ggccctgtct gaggactcag cccaactaa tgacacggct gccattcttg cttaacctcc tgcagagact gagttacagg caatgtgagg atggggtcag ggatatcttg agttctgttc atctacacct aatgccagtt ccagcttcac ctacccttga gtcatattga ggcatttcaag gatgcacagc tcaagtattt attcaggaaa aatgcttttg tgtccctgat ttggggctaa gaaatagaca gtcaggctac taaaatatta gtgttatttt ttgttttttg acttctgcct ataccctggg gtaagtggag ttgggaaata caagaagaga aagaccagtg gggatttcta agacttagat gagatagcgc ataataaggg gaagacttta aagtataaag taaaatgttt gctgtagggt ttttatagct attaaaaaaa atcagattat ggaagttttc ttctattttt agtttgctaa gagttttctg tttcttttcc ttacatcatg agtggacttt gcattttatc aaatgcattt tctacatgta ttatattact ctctctcttt atgtaaatca ttataaataa tgttcattaa gttctgaatg ttaaacctac ctggaattcc tggataaaac cacacttagt cctgatgtac ttttaaatatt tatatctcac aggagttggg taattttct gtgtttatgt ttatatactg ttatttcaat ttttctacta tccctgctaa gttttcatag aaaaataagg acaaaagaaa acttgtaatg gtctctgaaa aggaattgag aagtaattcc tctgattctg ttttctggtg ttatatcttt attaaatatt cagaaaaatt c	Homo sapiens
121	Follicle Stimulating Hormone Receptor	NM_000145	1681	gagattcctt ctgacctccc gaggaatgcc attgaaactga ggtttgtcct caccagctt gagattcctt cgctgagatc tgtgtagggt ttctctctga aatgcagaaa gaaatcaggt ggaatgagtc ataattatgt tctgtctact ggtctctttg ctggcattcc tgagcttggg ctcaggtagt catcatcgga tctgtcactg ctctaacagg gtttttctct gccaaagagag caaggtgaca gagattcctt ctgacctccc gaggaatgcc attgaaactga ggtttgtcct caccagctt	Homo sapiens

122	1681	Follicle Stimulating Hormone Receptor	NP_000136.1	<p>cgagtcaccc aaaaaggtgc attttcagga ttgggggacc tggagaaaa agagatctct cagatgatg tcttgaggt gatagaggc gatgtgtct ccaaccttc caattacat gaattagaa ttgaaaagg caacaacctg ctctacatca cccctgaggc cttcagaac cttcccaacc ttcaatatct gttaatatcc aacacaggta ttaagcacct tccagatgtt cacaagattc attctctcca aaaggtttta ctgacattc aagataacat aacatccac acaattgaaa gaaattcttt cgtggggctg agctttgaaa gtgtgattct atggctgaat aagaatggga ttcaagaaat acacaactgt gcattcaatg gaacccaact agatgcagt aatctaagcg ataataataa tttagaagaa ttgctcaatg cctgcctag ctatggctta ggaccagtca ttctagatat ttcaagaaca agatccatt cctgcctag ctatggctta gaaaatctta agaagctgag ggcaggtcg acttacaact taataaagct gcctactctg gaaaagcttg tgcctctcat ggaagccagc ctacactatc ccagccattg ctgtgctttt gaaaactgga gacggcaaat ctctgagctt catcaattt gcaacaaatc tattttaagg caagaattg attatatgac tcaggctagg ggtcagagat cctctctggc agaagacaat gagtcagct acagcagagg atttgacatg acgtacactg agtttgacta tgacttatgc aatgaagtgg ttgacgtgac ctgctccctc aagccagatg cattcaacc atgtgaagat atcatgggggt acaacatcct cagagtctg atatggttta tcagcatcct gccatcact gggaacatca tagtgctagt gatcctaact accagccaat ataaactcac agtccccagg ttccttatgt gcaacctggc ctttgtgat tctgtcatt gaatctacct gctgctcatt gcatacattg atatccatac caagagccaa tatcaaacat atgccattga ctggcaaac gggcaggct gtgatgctgc tggcttttct actgtctttg ccagtgagct gtcagtctac actctgacag ctatcacctt ggaagatgg catacatca cgcattgcat gcagctggac tgcaaggtgc agtcccgcca tgcgtccagt gtcattggtga tgggctggat ttttgctttt gcagctgcc tctttcccat ctttggcatc agcagctaca tgaagggtgag catctgctg ccatggata ttgacagccc ttgttcacag ctgtatgtca tgtccctcct tgtgtcaat gtcctggcct ttgtggtcac ctgtggctgc tataccaca tctacctcac agtgcggaac cccaacatcg tgcctcctc tagtgacacc aggatcgcca agcgcattgg catgctcact ttcaactgact tctctgcat ggcacctatt tctttctttg ccatttctgc ctccctcaag gtgcccctca tcaactgtgc caagcaaaag attctgttg ttctgtttca ccccatcaac tctgttgcca acccttctct ctatgcactc tttaaaaaa actttcgag agatttctc attctgtga gcaagtgtgg ctgctatgaa atgcaagccc aaatttatag gacagaaact tcatccactg tccacaacac ccatccaagg aatggccact gctcttcagc tcccagagtc accagtgggt ccaattacat acttgtcct ctaagtcat tagcccaaaa ctaaaaacaca atgtgaaaaat gtatctgagt attgaaatg aatcagtcct ttgctttga aggtatgtc acaaggagct gacagtgtct ctacacattt catctaattt aatattctcg gcatacctt aagtaaaatt ggtcaggaac tattaattcc atgtgataca ttaggaagct gaattattag taacacaat ataataataa gaatgcaata ctgtaaaaaa gggccgcga att</p>	Homo sapiens
				<p>122 1681 NP_000136.1 MALLIVSLLA FLISGSGCHH RICHCSNRVF LCQESKVEI PSDLP RNAIE LRFVLTCLR P IQKGFSGFG DLEKIEISQN DVLEVIEWADV FSNLPKLHEI RIEKANNLLY ITPEAFQNL P NLQYLLISNT GIKHLPDVHK IHSLSQKVLLD IQDNIHIHTI ERNSFVGLSF ESVILWLNKN GIQEIHNCAF NGTQLDAVNL SDNNNLEELP NDVFHGASGP VLDISRTI HSLPSYGLN LKLRLARSTY NLKLPITLEK LVALMEASLT YPSHCCAFAN WRQISELHP ICKNSILRQE</p>	

123	1726	G Protein- Coupled Receptor RDC1	U67784	<p>VDYMTQARGQ RSSLAEDNES SYSRGFDMTY TEFDYDLONE VDVTCSPKP DAFNPCEDIM</p> <p>GYNILRVLIW FISILAITGN IIVLVILTTS QYKLTVPREL MCNLAFAADLC IGIYLLLIAS</p> <p>VDIHTKSQYH NYAIDWQTGA GCDAAGFFTV FASELSVYTL TAITLERWHT ITHAMQLDCK</p> <p>VQLRHAASVM VMGWIFAFAA ALFPIFGISS YMKVSICLPM DIDSPLSQLY VMSLVLNLVL</p> <p>AFVVICGCIY HIYLTVRNPN IVSSSSDTRI AKRMAMLIPT DFLCMAPISE FAISASLKVP</p> <p>LITVSKAKIL LVLFPINSC ANPFLYAIFT KNFRDFEIL LSKGCGYEMQ AQIYRTETSS</p> <p>TVHNTHPRNG HCSSAPRVTS GSTYILVPLS HLAQN</p> <p>gccaactccg tgggtggtctg ggtgaatcag caggccaaga ccacaggcta tgacacgcac A</p> <p>tgctacatct tgaacctggc cattgccgac ctgtgggttg tccctaccat cccagctctgg</p> <p>gtggtcagtc tctgtcagca caacctaggg cccatgggag agctcacgtg caaagtcaca</p> <p>cacctcatct totccatcaa cctcttcagc agcattttct tccctacgtg catgagcgtg</p> <p>gacgctacc totccatcac ctacttcacc aacaccccca gcagcaggaa gaagatggta</p> <p>gcggtgtgct tctgcatect ggtgtggctg ctggccttct gcgtgtctct gcctgacacc</p> <p>tactacctga agacctgcac gtctgcgtcc acaaatgaga cctactgcog gtccttctac</p> <p>ccgagacaca gcatcaagga gtggtgcatc ggcattggagc tgggtctcgt tgtcttgggc</p> <p>tttgccgttc ccttctccat tctctctgct tctacttcc tctgtgcccag agccatctcg</p> <p>gcgtccagtg accaggagaa gcacagcagc cgggaagatca tcttctccta cgtggtggtc</p> <p>ttecttgtct gctggttgcc ctaccacgtg gcgtgtgctg tggacatctt cctcatctctg</p> <p>cactacatcc ctttcacctg ccggttggtg acgcccctct tcacggccct gcattgcaca</p> <p>cagtgcctgt cgctggtgca ctgctgctgc aacctgtcc tctacagctt catcaatcgc</p> <p>aactacaggt acgagctgat gaaggccttc atcttcaagt actcggccaa aacagggtc</p> <p>accaagctca tcatgctcctc cagagctctca gagcggagt actctgcctt ggagcagagc</p> <p>accaaagtat ctgcccctga gaggtctctgg gacgggttta cttgtttttg aacagggtga</p> <p>tgggccctat ggttttctag agcaaaagcaa agtagctctg ggtcttgatg cttgagtga</p> <p>gtgaagaggg gagcacgtgc cccctgcac cattyctctc tctcttgatg gacgcagctg</p> <p>tcatttggtt gtgctgtgctg acagttttgc aacaggcaga gctgtgtcgc acagcagtcg</p> <p>tgtgcgtcag agccagctga ggacaggctt gcctggactt ctgtaagata ggattttctg</p> <p>tggttctcta atttttata tgggtgatttg tattaaatt ttaagacttt atttctcac</p> <p>tattggtgta ccttataaat gtatttgaaa gttataataa ttttaaatat tgtttgggag</p> <p>gcatagtgct gacataatatt cagagtgttg tagttttaag gttagcgtga ctttcagttt</p> <p>tgactaagga tgacactaat tgttagctgt tttgaaatta tatatatata aatatataa</p> <p>tatatgccag tcttggtcga aatgttttat ttaccatagt tttatatctg tgtggtggtt</p> <p>tgtaaccggca cgggatattg aacgaaaact gctttgtaat gcagtttgtg acattaatag</p> <p>tattgtaaaag ttacatttta aaataaaaca aaaaactgtc tggactgcaa atctgcacac</p> <p>acaacgaaca gttgcatttc agagatttct ctcaatttgt aagttatttt tttttaataa</p> <p>agatttttgt ttcctaaaaa aaaaaaaaaa aaaaaa</p> <p>MDLHLFDYAE PGNFSDISWP CNSSDCIIVVD TVMCPNMPNK SVLLYTLSEI YIFIVIGMI P</p> <p>ANSVVVWVNI QAKTGTGDTH CYILNLAIAD LNVLTIPWV VVSLVQHNQW PMGELTCKVT</p> <p>HLIFSINLFS GIFFLTMSV DRYLSITYFT NTPSRKKMV RRVVCILVWL LAFCVSLPDT</p> <p>YYLKTVTAS NNETYCRSFY PEHSIKEWLI GMELVSVVLG FAVPFSIIAV FYELLARAI</p> <p>ASSDQEKHSS RKIIFSVMV FLVCLPYHV AVLLDIFSIL HYIPFTCRLE HALFTALHVT</p>	Homo sapiens
124	1726	G Protein- Coupled Receptor RDC1	AAA62370.1		Homo sapiens

125	1762	Galanin Receptor GalR1	NM_001480	QCLSLVHCCV NPVLYSFINR NYRYELMKAF IFKYSAKTGL TKLIDASRVS ETEYSALEQN AK	Homo sapiens
				atccgcgtag aatccgtcca gtctctgctc gcgcaccgtg acttctaagg ggcgcggatt A tcagccgagc tqttttcgac tctcagttgc agcagagaag cccctggcac ccgactctat ccaccaccag gaagcctccc aaaagagctc tcgcctctgt gacgactcgg aatccctgga aaagccggga gggagtcgga ggcgcacgac cactggggag gtggcgctgg gcgcgcggga tgccggggga gccttctctg caggagccgc acagtgcact gctgcgcgt gggcagtgcg gggaagcgc gcgggaagga gcggctccga gcaacaggtg cagcacgag ccgctccggg agccagggaa aaccgcggc gaagatcttg agcgttaag cggagagaag ggtcttcca cctgcgcggc tgcagccggc ggatccctct tcccaggctc cgtggtcgc cagcgggcgg aggcgcggc gcaggggacc ccagtgtctc cgagatcacc gtccctccc gagaaggctc agctcgggc tccgaacc accctctctc agaaagtcgc ggcgcaaaga cggtgccacc aggcagggc accgataccc cgtcccgct ggctcgcgc tcgggggaag ctcagactcc taaaactgca ctctccgtgc ttgcgccgg gaccctggc caccctggc gctgctatc ccgcctccc tcccgcgcg cccgcgcgt cgccggaca gcccgcggg ccatggagct ggcggtcggg aacctcagc agggcaacgc gactggccg gagccccccg ccccgagcc cgggccgctg ttgggcctcg gcgtggagaa ctctgtcac gtggtggtg tcggcctgat cttcgcgtg ggcgtgctg gcaacagct agtgcacc gtgctggcg cagcaagcc gggcaagccg cggagcaca ccaacctgtt cactcacc ctagcatcg ccgacctggc ctacctgtc ttctgcacc ccttcacgg cactgtac cgtgtgcca cctgggtgct ggcgccctc atctgcaagt tcatccacta cctctcacc gtgtccatgc tggtagcat cttcacctg gcgcgatgt ccgtggaccg ctacgtggcc atcgtgcact cgcggcgctc ctcctccctc aggtgtccc gcaacgcgt gctggcggtg ggtgcatct ggcgctgtc cattgcctg gcctgcggc tggcctacca ccaggccctc tccaccgcg gcgcagcaa ccagacctc tgcgtggagc agtggccga cctcgccac aagaaggcct acgtggtgtg cacctcgtc ttgggtacc tgcgtccgt cctgctcctc tgcctctgct atgccaagg ccttaatcac ttgcataaaa agtgaagaa catgtcaaa agtctgaag catccaagaa aaagactgca cagacagttc tgggtggtgt tgtgtgtgtt ggaatctcct ggtgcccga ccacatcatc catctctggg ctgagtttgg agtttcccg ctgacgcggg ctctctctc cttcagaatc accgcccact gcctggcgta cagcaatcc tccgtgaatc ctatcattt tgcatttctc tctgaaaatt tcagggaagc ctataaaca gtgttcaagt gtcacattcg caaagattca cacctgagtg atactaaa gaataaagt cgaatagaca cccaccatc aaccaattgt actcatgtgt gataaaagat agagtatcct tatggttgag ttccatata agtggaccag acacagaac aacagaatg agctagtaag cgaatgtgca acttggtatc ttaacaagaa ttcaagtcgt tttaattaaa tcccagctgt gttaaaaagt actttgatcc atttagaaa ttcttaggtc tagtgagaat ttttttcaa ttttatttta gttctaaatt atgtttcaga acaaaaagac aatgctgtac agttttatc ctcttcagac atgaaaggga acatatatat tccatatata tgttcaactc ttcatagatt gtgactggc ccatcaatat ggtcaggaat atttgcagtc tacattttta agccaattta tttagaaaa aaatttgagc tttaattctt taattttaag agaagtaata ttgtgacta tgtattttta aatatgatca tggacacaca atgatgaatt ttttggccat ttacatagac atatctatta agtggaaga	

144/448

126	1762	Galanin Receptor GalR1	NP_001471.1	aggctttctg aagtctgttt gcacaggtgg catttgcttc caattgtagc tagcgacacag agctttggaa gctgttcatt atgagataca gtcggtttac ctcaggagtc aattcagtgt tgtactgggtg acctgggatg cagtagtagg cactgttgat tcaaatttat cctgtgaac tggtttata gagttaacaa aacagagtca gagaccatg tcttaacagt ggaagatgca aataagtttt tgagaataaa actggatttt gaaattttac attagtactt gacaaaagtt ttcattttgc cttgaatgga acctactaaa aagagagatg aaaaaaatc agcgaggttg atgtagataa taatttctat gggaccaaaag actagacaga attcagtaag tcacatgaag taatggtcat gctgtatcat aaagcatatt tcatgtttga tttagatgac attcaaaaaa aatcatggga ctgaatatat ctggggtatc ctatcttgta caaatgcatg ctttttcatt aaatttgtaa tgatgtttaa tgaacatttc caccaaacat tatttcctct aaaaatgtta atttggggtt aaaaccatca ccatttgaat ttcaaatgta gttttcatga caattttata ttgatgtgtg tttaacaatga gaaaatggca tgaaaatatt aaattgtctt gtaatc MELAVGNLSE GNASWPEPPA PEPGLFGIG VENFVTLVVF GLIFALGVLG NSLVITVLAR P SKPGKPRSTT NLFILNLSIA DLAYLLFCIP FOATVVALPT WVLGAFICKE IHYFTVSML VSIFTLAAMS VDRYVAIVHS RRSLSLRVSR NALLGVGCIW ALSIAMASPV AYHQGLFHRP ASNQTFCWEQ WPDPRHKAY VVCTFVFGYL LPLLLICFCY AKVLNHLHKK LKNMSKKSEA SKKTAQTVL VVVVFGISW LPHHIIHLWA EFGVFPLTPA SELFRITAHK LAYSNSVNP IIYAFUSENF RKAYKQVFKC HIRKDSHLSLSD TKENKSRIDT PPSTNCTHV gagcagcgtg gagggggtg caggagcaag tgaccagag gagactggg gacaggcctg A atcgccccctg cagcaaccacg acctctgcgc gcctcaacga tgactacctc tccgatacctg cagctgctgc tggcgctctc actgtgcggg cgtgtaccag cgctgggaac ggtaccgag gagtgccat aagggggcaga cggcggggga gctgtaccag ggcctgcctt ggaacgggtc cttcgatatg gagaccttg gagcgcgga accgccttca ggcctgcctt gtaacgggtc cttcgatatg tacgtctgct gggactatgc tgcacccaat gccactgccc gtgcgtcctg cccctggtac ctgccccggc accaccatgt ggctgcaggt ttctctctcc gccagtgtgg cagtatggc caatggggac ttggagaga ccatacaca ttgtagaacc cagagaagaa tgaggccttt ctggacccaa ggtcatctt ggagcgggtg caggtcatgt aactgtcgg ctactccctg tctctgcca cactgtgct agcctgctc atctgagtt tgttcaggcg gctacattgc actagaaact atatccacat caacctgttc acgtcttca tgcgtcgagc tgcggccatt ctcagccgag acctctgct acctgacct ggcctctacc ttggggacca ggccttgcg ctgtggaacc agccctcgc tgcctgcgc acggccaca tegtaccca gtactcgctg ggtgccaact acactggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggagg ccactcgc tactacctgc tctcggctg gggggcccc gcgcttttcg tcattccctg ggtgategtc aggtacctgt acgagaacac gcagtgtgg gagcgaacg agtcaagc catttggtgg attatacga ccccatcct catgaccatc ttgattaatt tctcatctt tatccgcat cttggattc tctgttccaa gctgaggaca cggcaaatgc gctgccggga ttaccggctg aggtggctc gtccacgt gacgtgggtg ccccgtctg gtgtccacga ggtggtgttt gctccgtga cagaggaaca ggcggggg gccctgctg tgcgaagct cggctttgag atcttctca gctccttcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gaggtgagtt cggagatccg ccgtggctgg caccactgcc gctgcgccg cagcctggg cagaggaac gccagctccc ggagcgcgcc	Homo sapiens
127	1808	Gastric Inhibitory Polypeptide Receptor	NM_000164	gagcagcgtg gagggggtg caggagcaag tgaccagag gagactggg gacaggcctg A atcgccccctg cagcaaccacg acctctgcgc gcctcaacga tgactacctc tccgatacctg cagctgctgc tggcgctctc actgtgcggg cgtgtaccag cgctgggaac ggtaccgag gagtgccat aagggggcaga cggcggggga gctgtaccag ggcctgcctt ggaacgggtc cttcgatatg gagaccttg gagcgcgga accgccttca ggcctgcctt gtaacgggtc cttcgatatg tacgtctgct gggactatgc tgcacccaat gccactgccc gtgcgtcctg cccctggtac ctgccccggc accaccatgt ggctgcaggt ttctctctcc gccagtgtgg cagtatggc caatggggac ttggagaga ccatacaca ttgtagaacc cagagaagaa tgaggccttt ctggacccaa ggtcatctt ggagcgggtg caggtcatgt aactgtcgg ctactccctg tctctgcca cactgtgct agcctgctc atctgagtt tgttcaggcg gctacattgc actagaaact atatccacat caacctgttc acgtcttca tgcgtcgagc tgcggccatt ctcagccgag acctctgct acctgacct ggcctctacc ttggggacca ggccttgcg ctgtggaacc agccctcgc tgcctgcgc acggccaca tegtaccca gtactcgctg ggtgccaact acactggct gctggtggag ggcgtctacc tgcacagtct cctggtgctc gtggaggct ccgaggagg ccactcgc tactacctgc tctcggctg gggggcccc gcgcttttcg tcattccctg ggtgategtc aggtacctgt acgagaacac gcagtgtgg gagcgaacg agtcaagc catttggtgg attatacga ccccatcct catgaccatc ttgattaatt tctcatctt tatccgcat cttggattc tctgttccaa gctgaggaca cggcaaatgc gctgccggga ttaccggctg aggtggctc gtccacgt gacgtgggtg ccccgtctg gtgtccacga ggtggtgttt gctccgtga cagaggaaca ggcggggg gccctgctg tgcgaagct cggctttgag atcttctca gctccttcca gggcttctg gtcagcgtcc tctactgctt catcaacaag gaggtgagtt cggagatccg ccgtggctgg caccactgcc gctgcgccg cagcctggg cagaggaac gccagctccc ggagcgcgcc	Homo sapiens

128	1808	Gastric Inhibitory Polypeptide Receptor	NP_000155.1	<p> tccggggccc tgcctccgg ctccggcccg ggcgaggtcc ccaccagccg cggcttgctcc tcggggaccc tccagggcc tgggaatgag gccagccggg agttggaaag ttactgctag ggggcgggat ccccggtctt gttcagttag catgattta ttgagtcca actgcgtgccc agggccagta cggaggacgc tggggaatg gtgaaggaaa cagaaaaaag gtccctgccc ttctggagat gacaaactgag tggggaaaac agaccgtgaa cacaaaaat caagtccac acacgtatg gaatggttat gaagggaagc gagaagggg cctagggtgg tctgggaggc gtctccaaag aggtgacct taagccatcc cgaagaagc ggaagagat cactttggg agagctggag aacaggattc taggcggaag cgatagcata ggcaaggcc cttggcgagg aaggcgctca gccttgctg tagtagaatt aagtacagc caacaggttg gggagagaca gagaagtgg caggggcacc caagttggga ttctattca ggtgcattgg agattcttag gagtgctct tgggggtaatt atttattt ttaaaaaatg aggat </p>	Homo sapiens
129	1813	Gastrin- Releasing Peptide Receptor	NM_005314	<p> ccagattcta aatatcagg aagacgtgt gggaaaaatg caggccaaa gttcttagta A aactgcagcc agggagactc agactagaat ggaggtagaa agaactgatg cagagtggtt ttaattctaa gcctttttgt ggctaagttt tttgttgtt aacttatga atttagatt gtattgcact ggtcatgtga aagccagagc agcaccagt tcaaaatagt gacagagagt tttgaatacc atagttagta tatagtact cagagtattt ttattaaaga aggcaaaagag ccggcagtag atcttatctt catcttcact cggttgcaaa atcaatagtt aagaaatagc atctaaggga acttttaggt gggaaaaaaa atctagagat ggctctaaat gactgtttcc ttctgaactt ggaggtggac catttcagc actgcaacat ctccagtcac agtgcggatc tcccgtgaa cgatgactgg tcccaccgg ggaacctcta tgtcatccct gcagtttatg gggttatcat tctgataggc ctcatggga acatcaactt gatcaagatc ttctgtacag tcaagtccat gcgaaacgtt ccaaacctgt tcatttccag tctggctttg ggagacctgc tcctcctaata aacgtgtgct ccagtgatg ccagcaggta cctggctgac agatggctat ttggcaggat tggctgcaaa ctgataccct ttatacagct tacctctgtt ggggtgtctg tcttcacact cagggcgctc tcggcagaca gatacaagc cattgtccgg ccaatggata tcaggccctc ccatgcccctg atgaagatct gctcaaaagc cgcctttatc tggatcatct ccatgctgct gggcattcca gaggcgtgt ttctgacct ccaccccttc catgagaaa gcaccaacca gaccttcatt agctgtgccc cataccaca ctctaagtatg cttcacccca aaatccattc tatggcttcc ttctgtgtct tctacgtcat ccactgtcg atcatctctg tttactacta ttctattgct aaaaatctga tccagagatgc ttacaatctt cccgtggaag ggaatatata tglcaagaag cagatgaaat cccggaagc acttgccaag acagtgtggtg tgttgtggg cctgttgcg ttctgtggc tcccaatca tgtcatctac ctgtaccgct cctaccacta ctctgaggtg gacacatcca tgtctccactt tgtcaccagc atctgtgccc </p>	Homo sapiens

130	1813	Gastrin- Releasing Peptide Receptor	NP_005305.1	<p>gctctctggc cttcaccac tctctgctga accctttgc cctctacctg ctgagcaaga</p> <p>gtttcaggaa acagttcaac actcagctgc tctgttgcca gcttgccctg atcatccggt</p> <p>ctcacagcac tggaggaggt acaacctgca tgacctccct caagagtacc aacctctccg</p> <p>tgccacacct tagcctcatc aatggaaaac tctgtcacga gcggtatgtc tagattgacc</p> <p>cttgattttg cccctgagg gacggttttg ctttatggct agacaggaac ccttgcatcc</p> <p>attgttgtgt ctgtgccctc caaagagcct tcagatgtct cctgagtgtg gtagggtggg</p> <p>gtggggaggc ccaaatgatg gataccatt atattttgaa agaagc</p> <p>gtggggaggc ccaaatgatg gataccatt atattttgaa agaagc</p>	Homo sapiens
131	1814	Cholecystoki nin B Receptor	NM_000731	<p>LIKIFCTVKS MRNVNLFIS SLALGDLILL ITCAPVDASR YLADRWLFGR IGCKLIPFIQ</p> <p>LTSVGVSVFT LTFALSADRYK AIVRPMDIQA SHALMKICLK AAFIWIISML LAIPEAVFSD</p> <p>LHPFHEESTN QTFISCAPYP HSNELHPKIH SMASFLVFYV IPLSIISVY YFIAKNLIQS</p> <p>AYNLPVEGNI HVKKQIESRK RLAKTVLVFV GLFAFCWLPN HVIYLYRSYH YSEVDTSMHL</p> <p>FVTSICARLL AFTNSCVNPF ALYLLSKSFR KQFNTQLLCC QPGLIIRSHS TGRSTTCMTS</p> <p>LKSTNPSVAT FSLINGNICH ERYV</p> <p>atggagctgc tcaagctgaa ccggagcgtg cagggaaccg gacccgggcc gggggcttcc A</p> <p>ctgtgcccgc cggggggccc tctctcaac agcagcagtg tgggcaacct cagctgcgag</p> <p>ccccctcgca ttccgggagc cgggacacga gaattggagc tgccattag aatcactctt</p> <p>tacgcagtga tcttctgat gacgtttgga ggaatatgac tcatcatcgt ggtctcggga</p> <p>ctgagccgcc gctgaggac tgtcaccaat gcttctctcc tctcactggc agtcagcgac</p> <p>ctcctgctgg ctgtggcttg catgcccctc acctctctc ccaatctcat gggcacattc</p> <p>atctttggca cegtcatctg caagcgggtt tctctactca tgggggtgtc tgtgagtgtg</p> <p>tccacgctaa gctcgtggc catcgactg gacggtgaca gcgccatctg ccgaccactg</p> <p>caggcaacgag tgtggcagac gcgtctccac gcggctcgcg tgattgtagc cacgtggctg</p> <p>ctgtccggac tactcatggt gccctacccc gtgtacactg tctgtcaacc agtggggcct</p> <p>cgtgtctgc agtgcgtgca tgcgtggccc agtgcggcgg tccgcccagc ctggtccgta</p> <p>ctgctgttc tgccttgtt cttcatcccg ggtgtgttta tggccgtggc ctacgggctt</p> <p>atctctcgcg agctctactt agggcttcgc tttagcggcg acagtgcag cgacagccaa</p> <p>agcagggtcc gaaaccaag cgggctgcca ggggctgttc accagaacgg gcgttgccgg</p> <p>cctgagactg gcgcggttg cgaagacagc gatgctgtct acgtgcaact tccacgttcc</p> <p>cggcctgccc tggagctgac ggcgctgac gctccaggcg cgggatcccg cccccggccc</p> <p>acccaggcca agctgctggc taagaagcgc gtggtgcgaa tgtgtctggt gatcgttgtg</p> <p>cttttttttc tgtgttggtt gccagtttat agtgccaaca cgtggcgcgc ctttgatggc</p> <p>ccgggtgcac accgagcact ctcggtgtgt cctatctct tcatctactt gctgagctac</p> <p>gcctcggcct gtgtcaaccc cctgggtctac tgcctcatgc accgtcgtt tgcggaggcc</p> <p>tgcctggaaa ctgtgcctcg ctgctgccc cggcctccac gactcgcgc cagggtcttt</p> <p>cccgatgagg acctccccc tccctccatt gcttctgtgt ccaggcttag ctacaccacc</p> <p>atcagcacac tggggccctgg ctgaggagta gaggggcctt gggggttgag gcagggcaaa</p> <p>tgacatgcac tgaccttcc agacatagaa aacacaacc acaactgaca caggaaacca</p> <p>acacccaaaag catggactaa ccccaacgac aggaagaggt agcttacctg acacaagagg</p> <p>aataagaatg gacagtaga tgggaaagga ggcagcctc tgatatggga ctgagcctgg</p> <p>cccatagaaa catgacactg accttgaga gacacagcgt ccctagcagt gaactatttc</p>	Homo sapiens

132	1814	Cholecystoki nin B Receptor	NP_000722.1	<p> taccacagtgg gaactctgac aagggtgac ctgacctctca cacacataga ttaatggcac tgattgtttt agagactatg gagcctggca caggactgac tctgggatgc tctagtgtg acctcacagt gaccttccc aatcagcact gaaaatacca taaggcctaa tctcatacct ctgaccaaca ggtgtttctg cactgaaaaa gttcttcac ctttccagt taaggaccgt ggccctgccc tctcttctt tcccaaaactg ttcaagaaat aataaattgt ttggcttctt cctgaaaaaa aaaaaaaa aaaaaaaa aggaattcc MELLKLNRSV QGTGPGPGAS LCRPGAPLIN SSSVGNLSCE PRIRGAGTR ELELAIRITL P YAVIFILMSVG GNMIIIVLG LSRRLRTVTN AFLLSLAVSD LLAVACMPF TLLPNLMGTF IFGTVICKAV SYLMGVSVSV STLSLVAIAL ERYSAICRPL QARWQTRSH AARVIVATWL LSGLIMVPYP VYTVVQPVGP RVLQCVHRWP SARVQRTWSV LLLLLFFIP GVMVAAYGL ISRELYIGLR FDGSDSDSQ SRVRNQGLP GAVHQNGRCR PETGAVGEDS DGCYVQLPRS RPALELTALT APGPGSGSRP TQAKLLAKKR VVRMLLVIV LFFLCWLPVY SANTWRAFDG PGAHRALSQA PISFIHLISY ASACVNPLVY CFMHRFRQA CLETCARCCP RPRRARPRAL PDEDPTPSI ASLSRLSYTT ISTLGP ggatctggca ggcgcgcgaa gacgagcgtt caccggcgcc cgaccccgag gcgcccagag A gacggcgggg agccaagccg acccccagc agcgccgcgc gggccctgag gctcaaaagg gcagcttcag gggaggacac cccactggcc aggaagcccc aggtctgtgt gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtgggaggca gctagctgcc ccccccctgc agccacagcg accctgctg ctgttgctgc tgtgtctggt ctgcagacca caggtcccc cggctcaggt gatggacttc ctgtttgaga agtggaagct ctacggtgac cagtgtcacc acaacctgag cctgtgcccc cctccacagg agctgggtgt caacagaacc ttcgacaagt attcctgctg gcgggaaccc ccgcgcaata ccacggccaa catctctgc cctgggtacc tgcctggca ccacaaagtg caacaccgtt tctgttcaa gagatgcggg ccgacgggtc agtgggtgcy tggacccccg ggcagacctt ggcgtgatgc ctccagtgcc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctggggg cctgtctct cgtcctggcc atcctggggg gctcagcaa gctgcaactgc accgcaatg ccatccaagc gaattgttt gctccttcg tctgaaagc cagctccgtg ctggtcattg atgggtgct caggacccgc tacagccaga aaattggcga cgacctcagt gtcaagacct ggctcagtga tggagcgggtg gctggctgcc gtgtggccgc ggtgttcattg caatatggca tctgtggccaa ctactgtgg ctgctgggtg agggcctgta cctgcacaac ctgctggggc tggccacct ccccgagag agcttcttca gctctacct gggcacggc tggggtgccc ccatgctgtt cgtcgtcccc tgggcagtgg tcaagtgtct gttcgagaac gtccagtgtc ggaccagcaa tgacaacatg ggtctctgtt ggtacctgcy gttccccgtc ttcttgcca tcttgatcaa cttcttcac ttcttccgca tctgttcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaagt tccggtggc caagtccacg ctgaccttca tccctgtgt tggcggtccac gaagtgggtct ttgccttctg gacggacgag caegccagg gcacctgtg ctcgccaag cttctcttcg acctcttct cagctccttc cagggcctgc tgggtggtgt cctctctatg tctctcaaca aggaggtgca gtcggagctg cggcggcggtt ggcaccgctg gcgctggggc aaagtgtctat gggagagagc gaacaccagc aaccacaggg cctcatcttc gcccgccac ggcctctcca gcaaggagct </p>	Homo sapiens
133	1834	Glucagon Receptor	NM_000160	<p> gacgagcgtt caccggcgcc cgaccccgag gcgcccagag A gacggcgggg agccaagccg acccccagc agcgccgcgc gggccctgag gctcaaaagg gcagcttcag gggaggacac cccactggcc aggaagcccc aggtctgtgt gctctgccac tcagctgccc tcggaggagc gtacacacac accaggactg cattgcccc gtgtgcagcc cctgccagat gtgggaggca gctagctgcc ccccccctgc agccacagcg accctgctg ctgttgctgc tgtgtctggt ctgcagacca caggtcccc cggctcaggt gatggacttc ctgtttgaga agtggaagct ctacggtgac cagtgtcacc acaacctgag cctgtgcccc cctccacagg agctgggtgt caacagaacc ttcgacaagt attcctgctg gcgggaaccc ccgcgcaata ccacggccaa catctctgc cctgggtacc tgcctggca ccacaaagtg caacaccgtt tctgttcaa gagatgcggg ccgacgggtc agtgggtgcy tggacccccg ggcagacctt ggcgtgatgc ctccagtgcc cagatggatg gcgaggagat tgaggtccag aaggaggtgg ccaagatgta cagcagcttc caggtgatgt acacagtggg ctacagcctg tccctggggg cctgtctct cgtcctggcc atcctggggg gctcagcaa gctgcaactgc accgcaatg ccatccaagc gaattgttt gctccttcg tctgaaagc cagctccgtg ctggtcattg atgggtgct caggacccgc tacagccaga aaattggcga cgacctcagt gtcaagacct ggctcagtga tggagcgggtg gctggctgcc gtgtggccgc ggtgttcattg caatatggca tctgtggccaa ctactgtgg ctgctgggtg agggcctgta cctgcacaac ctgctggggc tggccacct ccccgagag agcttcttca gctctacct gggcacggc tggggtgccc ccatgctgtt cgtcgtcccc tgggcagtgg tcaagtgtct gttcgagaac gtccagtgtc ggaccagcaa tgacaacatg ggtctctgtt ggtacctgcy gttccccgtc ttcttgcca tcttgatcaa cttcttcac ttcttccgca tctgttcagct gctcgtggcc aagctgcggg cagggcagat gcaccacaca gactacaagt tccggtggc caagtccacg ctgaccttca tccctgtgt tggcggtccac gaagtgggtct ttgccttctg gacggacgag caegccagg gcacctgtg ctcgccaag cttctcttcg acctcttct cagctccttc cagggcctgc tgggtggtgt cctctctatg tctctcaaca aggaggtgca gtcggagctg cggcggcggtt ggcaccgctg gcgctggggc aaagtgtctat gggagagagc gaacaccagc aaccacaggg cctcatcttc gcccgccac ggcctctcca gcaaggagct </p>	Homo sapiens

134	1834	Glucagon Receptor	NP_000151.1	<p>gagtttggg aggggtggtg gcagcaggga ttcattctgc gagacccctc tggctgggtg</p> <p>cctccctaga ttggtgaga gcccttctg aacctgtgc ggacccagc taggctgga</p> <p>ctctggcacc cagaggctc gctggacaac ccagaactgg acgccagct gagctgggg</p> <p>gcgggggagc caacagcagc cccacactac ccccccacc cagtggtgct gtctcgaga</p> <p>ttgggctcc tctccctgca cctgcctgt cctgggtgca gagtgagca gagagtcga</p> <p>ggcgggagt ggggctgtg cctgaactg cgtgagctc tccccagta tgcggcagc</p> <p>tccactgac atggaaatgt cctcaacaa taaagagctc aagtggtcac cgtg</p> <p>MPPCQPORPL LLLLLLLACQ PQVPSAQVMD FLEKWKLYG DQCHNLSLL PPPTLVCNR P</p> <p>TFDKYSCWPD TPANTTANIS CPWYLPWHHK VQHFVFKRC GPDGQWVRGP RQGPWRDASQ sapiens</p> <p>CQMDGEEIEV QKEVAKMYSS FQVMYTVGYS LSLGALLAL AILGLSLKH CTRNATHANL</p> <p>FASFVLKASS VLVIDGLLRT RYQKIGDDL SVTWLSDGA VAGCRVAADF MQYGIYANYC</p> <p>WLVVEGLYLH NLLGLATLPE RSFFSLYLG I GWAPMLFV PWAVVKLFE NVQWTSNDN</p> <p>MGFWILRFP VFLAILINF IFVRIVQLLV AKLRARQMHF TDYKFLAKS TLTLLPLGV</p> <p>HEVVFVFTD EHAQGLRSA KLFFDLFLSS FQGLLVAVLY CFLNKEVQSE LRRRHRWRL</p> <p>GKVLWEERN SNHRASSSPG HGPPSKELQF GRGGSQDSS AETPLAGGLP RLAESEF Homo</p>	135
1925	1925	Gonadotropin -Releasing Hormone Receptor	NM_000406	<p>ttggttgctg gtccacttac aaacactttt catatttga tgcctttcca atggttatcc A</p> <p>tgtttggc atttcaggca tatggccctg atcagattaa ctgacatgat gtatatgcaa</p> <p>agcctttga gtcttcaga aaataaatt atctattca agactgattg cttataagga</p> <p>acttattata gctaataatg taggcacaa tttttttgta atctcctag atgagtcaga</p> <p>acttagtttt gatgtaggta aaatttttt gtcacaaa atcaggtgtg agaaaatctc</p> <p>ttctctgat acttatata aatagaggat ataaatttt caagctgga agtagtcaga</p> <p>gaagctgga attctggaca tatagtgaca gtcaaaaagg agctcaggta caggactggt</p> <p>ctaagctgct caagattcag gagacagcca gtacacagag agctgagga aataatcacg</p> <p>atatatctaa aacacttctc taacctctg tggtaacaag ctcttaaaag gggctggatg</p> <p>atgttgtgt cactttttat caccagcaaa ggttaagata atgtatatag taaatatta</p> <p>gtaccattt attaaataaa taaatatta agacagaata acaagata ataaatgaac</p> <p>caataagaat gcaccatcta agtcaaaaata gccactttta tctttaacat tgtacctgtc</p> <p>ttggctgctg cagaagcaaa ctgtgtggca ttgacaaaat caagctggtg atttaataaa</p> <p>ttccaatga agtcttacca gtattgatga ataactatcc agcactcacc atgaaaagta</p> <p>aagaagcaac acagaaaaag ttcctaagtg gtcccaattt gaaatgatca gataacctat</p> <p>aaaagaacat attcatatta tactaacata aacacatata atgacactta cagcagttac</p> <p>acagtattct cttcaataac tagtttctct atgcattaat gtgtaataac agcaactaca</p> <p>atatattgat aattataaaa accaaggcaa taatttaaaa atgtattaac cgttttactc</p> <p>taacttaagc atggattgga tcagtaagat tgattaataa atttgaatgc agtcagttgg</p> <p>attgattcta atttaagtt ttaatttgtt gtagaataat tttaagtgaa tataattgtc</p> <p>cagtggtcga gtgctcaaca gtgtgtttga aaaggaac aaagaatgtt ttgagaatgt</p> <p>gttaattcct taagacaatg gattttaat ggatctgtgt ttttcatatt tcttcattat</p> <p>cattatacat ctgtatgttg gacagaacac taacactaaa tagtttttag aaagtgtttt</p> <p>ttgaagttat ttaaatcata atatcatgac tgacttttga attcaaaatt aggctgtgac</p> <p>tatcttctt cacttaggaa gagtgtgtg aaagccagc catctgctga ggtgctacag</p> <p>ttacatgtgg cctcagaat gcgtttggcc tgcctgttt tagcactctg ttgatttacc</p>	1925

136	1925	Gonadotropin NP_000397.1 -Releasing Hormone Receptor	<p> aatacacaaa acaagttaac ctttgatctt tcaattaag tatctcaggg aaaaaatttg acatacgtct aaacctgtga cgtttccatc taaagaaggc agaaataaaa catggacttt agattcggtt acaataaaat atcagatgca ccagagacac aggcttgtaa gctctgtcct gggaaaaatg ggcaaacagt gcctctcctg aacagaatca aaatcactgt tcagccatca acaacagcat ccactgatg cagggaacc tcccactct gacctgtct gaaaagatcc gagtgcggt tactttctc cttttctgc tctctgcgac ctttaagtct tctttctgt tgaaacttca gaagtggaca cagaagaaag agaaaggga aagctctca agaatgaagc tgctcttaaa acatctgacc ttagccaacc tgttgagagc tctgattgtc atgccactgg atgggatgg gaacattaca ttccaatggt atgtcggaga gttactctgc aaattctca gttatctaaa gctttctcc atgtatgcc cagccttcat gatgtggtg atcagcctgg accgtccct ggctatcacg aggccctag cttgaaaaa caacagcaaa gtcggacagt ccatgggttg cctggcctgg atcctcagta gtgtcttgc agaccacag ttatacatc tcaggatgat tcatctagca gacagctctg gacagacaaa agtttctct caatgtgtaa cacactgcag tttttcaca tgggtgcac aagcatttta taacttttc acctcagct gcctcttcat catcctctt ttcatcagc tgatctgcaa tgcaaaaaatc atctcacc tgacacgggt ctttcatcag gacccacag aactacaact gaatcagtc aagaacaata taccaagagc acggctgaag actctaaaaa tgacggtgc atttgccact tcattactg ttgtctggac tccctactat gtctaggaa tttggtattg gtttgatcct gaaatgttaa acaggtgtgc agaccagta aatcacttct tcttctctt tgcctttta aacctgct ttgatccact tatctatgga tattttctc tgtga </p>	Homo sapiens
137	1945	Opsin, green-sensitive NM_000513	<p> SDPVNHFFFL FAFLNPCFDP LIYGPFSL atggcccagc agtgagcct ccaaggctc gcaggccgc atccgcagga cagctatgag A gacagcacc agtcagcat cttcacctac accaacagca actccaccag aggcccttc gaaggcccg attaccacat cgtcccaga tgggtgtacc acctaccag tgtctggtg atctttgtg tcatgtcat cgttttaca aatgggcttg tctggcggc caccatgaag ttcaagaagc tgcgccacc gctgaactgg atcctggtga acctggcgt cgtgacctg gcagagaccg tcatcgccag cactatcagc gttgtgaacc aggtctatgg ctactcgtg ctgggccacc ctatgttgt cctggagggc tacaccgtct cctgtgtgg gatcacaggt ctctggtctc tggccatcat tctctgggag agatggatgg tggctgcaa gcccttggc aatgtgagat ttgatgcaa gctggccatc gtgggcattg ccttctctg gatctggct gctgtgtgga cagccccgc catctttggt tggagcaggt actggcccc cgccctgaag acttcatcg gccagacgt gttcagggc agctcgtacc ccggggtgca gctttacatg atgtctctca tggtaacctg ctgcatcacc ccatcagca tcatcgtgt ctgtacctc caagtgtggc tggccatcc agcgttgga aagcagcaga aagagtctga atccaccag aaggcagaga aggaagtgc gcgatggtg tgggtgattg tcttggaatt ctgtcttgc tggggaccat acgcttctt cgcagtctt cgtgctgcca acctggcta cccctccac </p>	Homo sapiens

138	1945	Opsin, green- sensitive	NP_000504.1	<p>cctttgatgg ctgcccctgcc ggctttctttt gcaaaaagtg ccactatcta caaccocgtt atctatgtct ttatgaaccg gcagtttcga aactgcactc tgcagctttt cgggaagaag gttgacgatg gctctgaact ctccagcgcc tccaaaacgg aggtctcatc tgtgtcctcg gtatcgctcg catga</p> <p>MAQWLSLQRL AGRHPQDSYE DSTQSIITY TNSNSTRGPF EGPNYHIAPR WVYHLSVMM P IFVVIASVFT NGLVLAATMK FKLRHPLNW ILVNLAVADL AETVIASITIS VVNQVYGYFV LGHPMCVLEG YTVSLCGITG LWSLAIISWE RMWVCKPFG NVRFDAKLAI VGIAFSWIWA AVWTAPPIFG WSRYPWHGILK TSCGPDVFSG SSYPGVQSYM IVLMTCCIT PLSIIVLCYL QVWLAIKRAVA KQKSESTQ KAEKEVTRMV VMVLAFCFC WGPYAFFACF AAANPGYPFH PLMAALPAFF AKSATIYNPV IYFEMNRQFR NCILQLFGKK VDDGSELSSA SKTEVSSVSS VSPA</p>	Homo sapiens
139	1951	Growth Hormone Secretagogue Receptor	NM_004122	<p>atgtggaacg cgacgcccag cgaagagccg ggggtcaacc tcacactggc cgactggac A tgggatgctt cccccggcaa cgactcgctg ggcgacgagc tgcageagct cttccccgcg cgcgtgctgg cgggcgctac agceacctgc gtggcactct tcgtggtggg tatcgctggc aacctgtcca ccatgctggt ggtgtcgccg ttccgcgagc tgcgcaccac caccacacctc taactgtcca gcatggcctt ctcegatctg ctcatcttcc tctgcatgcc cctggacctc gttcgacctt ggcagtaccg gccctggaac ttccggcacc tccttgcaa actcttccaa ttcgtcagtg agagctgcac ctacggcaag gtgctcacea tcacagcgtt gagcgtcgag cgctacttgc ccatctgctt cccactccgg gccaaagttg tggtcaccaa gggcggggtg aagctggtea tcttcgtcat ctgggcccgt gcccttctgca gcgcggggcc catcttcgtg ctagtccggg tggagcaaga gaacggcacc gaccttggg acaccaacga gtgcgcggcc accgagtttg cgggtcgctc tggactgctc acggtcatgg tgtgggtgtc cagcatcttc ttcttccttc ctgtcttctg tctcacggtc ctctacagtc tcacggcag gaagctgtgg cggagaggcg cggcgcatgc tgctgtgggt gccctcgtea gggaccagaa ccacaagcaa accgtgaaa tgctgggtgg gtctcagcgc ggcctcaggc ttctctcgc gggctcctatc ctctccctgt gccctctccc ttctctctga</p> <p>MWNATPSEEP GFNLTLADLD WDASPGNDSL GDELLQLFPA PLLAGVTATC VALFVVGIAG P NLLTMLVVSF FRELRTTNL YLSSMAFSDL LIFLCMPDL VRLWQYRPWN FGDLLCKLFQ FVSECTYAT VLTITALSVE RYFAICFPLR AKVWTKGRV KLVI FVTWAV AFCAGPFI FV LVGVEHENG DPWDTECRP TEFAVRSGLL TVMWVSSIF FFLPVFCITV LYSLIGRKLW RRRRGDVVG ASLRDQNHKQ TVRMLGGSQR ALRLSLAGPI LSLCLLPSL</p>	Homo sapiens
140	1951	Growth Hormone Secretagogue Receptor	NP_004113.1	<p>agcagccaa gcttactgag gctggtggag ggagccactg ctgggctcac catggaccgc A cggatgtggg ggcccacagt cttctgcgtg ttgagcccg taccgacctt attgggccac atgcacccag aatgtgactt catcacccag ctgagagagg atgagatgc ctgtctacaa gcagcagagg agatgcccac caccacccctg ggctgcccct gcacctggga tgggctgctg tgctggccaa cggcaggctc tggcgagtggt gtcacctcc cctgcccgga ttctctctt cacttcagct cagagtccagg ggctgtgaaa cgggattgta ctactactgg ctggtctgag ccctttccac cttaacctgt ggctgcccc gtgcctctgg agtgcctggc tgaggaggaa tcttacttct ccacagtga gattatctac accgtggcc atagatctc tattgtagcc ctcttcgtgg ccatcaccat cctggttgct ctccaggagg tccactgccc ccggaactac gtccacaccc agctgttcac cactttatc ctcaaggcg gacgtgtgtt cctgaaggat</p>	Homo sapiens
141	1954	Growth Hormone- Releasing Hormone Receptor	NM_000823		Homo sapiens

142	1954	Growth Hormone- Releasing Hormone Receptor	NP_000814.1	<p> ggggctctag cccaaggctc agaggagcca ataaacctgt aaatgaaaaa aaaaaa GLLCWPTAGS GCVLSPLPTV LGHMHPCDF ITQREDESA CLQAAEEMPN TTLGCPATWD P EESYFSTVK IYTVGHSIS IVALFVAITI LVALRDLHCP RNYVHTQLTF TFIKAGRVF LKDAALFHD DTDHCSFSTV LCKVSVAAASH FATWNFNSWL LAEAVYLNCL LASTSPSSRR AFWMLVLAW GLPVLFTGTW VSCKLAFEDI ACWDLDDTSP YMWLIKGPV LSVGVNFGLF LNIIRILVRK LEPAQGLSHT QSQYWRLSKS TLFILPLFGI HYIIFNPLPD NAGLGIRLPL ELGLSFQFG IVAILYCFLN QEVRTETSRK WHGHDPPELLP AWRTRAKWTT PSRSAAKVLIT SMC </p>	Homo sapiens
143	2120	Histamine H1 Receptor	NM_000861	<p> caggagagaca tacaggattt aagaagccca tcatggagaa gaccttcaat tacagagata A aaaagtittt cttgtggaac agttaacac tagatggcag ataacagact gaggagtggag ctgcttctga ctcgattaaa agggagatga gccataactg gcggctgctc tticgccaat gagcctccc aattcctcct gcctcttaga agacaagatg tgtgagggca acaagaccac tatggccagc cccagctga tgcctctggt ggtggtcctg agcactatct gcttggctac agtagggtc aacctgctgg tctgtatgc cgtacggagt gaggcggaagc tccacactgt ggggaacctg tacatcgtca gcctctcgggt ggcggacttg atcgtgggtg ccgtcgtcat gcctatgaac atcctctacc tgctcatgtc caagtggta cttggccctc ctctcgtcct cttttggctt tccatggact atgtggccag caacagctcc attttcagt tcttccct gtgcattgat cgtaccgct ctgtccagca gccctcagg taccttaagt atcgtaacaa gaccagagcc tggccacca ttctgggggc ctggtttctc tcttttctgt gggttatcc cattctagc tggaaatcact tcatgagca gacctcgggt gcgcgagagg acaagtgtga gacagacttc tatgatgtca cctgggtcaa ggtcatgact gccatcata acttctacct gcccaccttg ctcatgctct ggttctatgc caagatctac aaggccgtac gacaacactg ccagcaccgg gagtcatca ataggctcct ccttctctc tcagaaatta agctgaggcc agagaacccc aagggggatg ccaagaacc agggaaggag tctcctggg aggtcttgaa </p>	Homo sapiens

aaggaaagcca aaagatgctg ggggtggatc tgtcttgaag tcaccatccc aaacccccaa
ggagatgaaa tcccagttg tcttcagcca agagatgat agagaagtag acaaaactcta
ctgctttcca ctgtatattg tgcacatgca ggtcgggca gggggagta gcagggacta
tgtagccgtc aaccggagcc atggccagct caagacagat gagcagggcc tgaacacaca
tggggccagc gagatatcag aggatcagat aggcacagc aaattgagga gtgggtctaa
ggactcagat accaccacag agacagacc aggcacagc aaattgagga gtgggtctaa
cacaggcctg gattacatca agttacttg gaagggctc cgtcgcatt caagacagta
tgtatctggg ttgcacatga accgcgaag gaagccgcc aaacagttgg gttttatcat
ggcagccttc atcctctgct ggatccctta ttcaatcttc ttcaatggtc ttgccttctg
caagaactgt tgcaatgaac atttgccat gttaaccatc tggctgggct acatcaactc
cacactgaac cccctcatct accccttggt caatgagaac ttcaagaaga cattcaagag
aattctgcat attcgtcct aagggggct ctgaggggat gcaacaaat gatccttatg
atgtccaaca aggaataga ggacgaaggc ctgtgtgtg ccaggcaggc acctgggctt
tctggaatcc aaaccacagt cttaggggct tggtagtttg gaaagtctt aggcacata
gaagaacagc agatggcgt gatcagcaga gagattgaac tttagaggag aagcagaatc
tttgaagaa agtcagacct gttcttgtta actgggttca aaagaaaaa aataataaaa
ataaaagaa gagagaatca gacctgggtg gaactctct gctcctcagg aactatggga
gcttcagact cattgtaatt caagctttcc gagtcaagt attgacaact gaagagacac
gtggctaggg ttccactgga gaattgaaaa ggcctccttg gccctcctgg aatggagctg
tataactgtg cagagacttt atccatgcca atagtgtgtg tccccttcca ggggtcaact
tgagaggcat gacagctgt ccacaggggc tatccttct cagaaaaact ctcttctgag
cctctttaac agctttctcc agaaccagt tctgaaccac cctggaaatt ctgccttatt
atbcttact caaacatgtt tagagtggat agaaattat gcagcttgca caccatcat
ctttaacccc aaatttctt tggctattaa aaaagtgtg gcaaaaggca tctcaaaag
aaagagaaat gaaatattt tgaatggtg cacgttaaaa attaaaaaaa ggaatggggg
cagaatgcca tatttttgag ggctgtacta gttttatctc atttaagccc cacaacaccc
cacaggaggg taattttcta actctagtgt gcagaggagc aaattgaggt tcagcaaggt
gagagaggta cccaaggta catagctagt tatgtgagaa agttagagta cagatcctct
gggttttcag cttattgtag cataatttct ccgaaaggca aaatgtgcc ctttggccg
ggcatggtag ctcaagccta taatccagc atgttgagag gctgaggtg gcagatcatt
tgaggccagg agttcaagc cagtctggcc aaatggaga aacctgtct ctactaaaa
cacaaaaatt atctgggcat ggtggggcat gctgtagtc ccacttactt gggaggccga
ggcacgagaa tcgcttgaac ccggggaggtg gaggttgccg tgagccaaaga tcacgccact
gcactccagc ctgggcaaca gagcaagact ctgtctcaaa aaaaaata caatattta
acaatgtgc ctcttaagtg tgacagata cacatacacg gtattccaa gagtgggtggc
agctcaaaat gatatgtttg agtagcgaa accaagtga tttttatctg tgagtctgt
gaaggggacg ctttgaagga accaagtga tttttatctg tgagtctgt tggtttgtc
aaaaagtcac tgtaatcttt catagccata cctggtaagc aaaaactagt aaagacatag
gaacatgtag ttttacttgg tgttatgtt gcaatctggt tgtgatttat attttaagc
ttgggtgctaa accacaatat gtatagcaca tggagtgcct gtacaagctg atgtttgtg
ttttgtgttc ctctttgcat gatctgtcaa agttagatat ttttacctgc ctaaaaatat

153/448

144 2120 Histamine H1 NP_000852.1 Receptor
 2120 Histamine H1 NP_000852.1 Receptor

atgttttaaaa gcataactcta tgtgatttat ttattttctac cttttctgagt cttcttgagct
 aagaagatgt tttgaaatgt accatcaaat gtttaacagag tttgatatgg gctttctott
 tggttttctca tcacatttgt aatgtctttt tcaaaaggat ttactttttg taaaaagctt
 cattctcact ctgcttttga tcccccaaac tctctgttca aaacgggggg agtttaggag
 actttaatcc cggtttcaga agctgcagct ggtctgtttc caggtcagaa accatgttc
 agaagacctc cctgtgagag agtgtctct caggtgctct caggacccaa gaacactcga
 aaagagcact tcacacagac agtggctaa gtgtccatta tttacctga acaatcaagg
 caactagtgg agagaactga ttgtgagctc

MSLPNSSCLL EDKCEGNKT TMASPOLMPL VVVLSTICLV TVGLNLLVLY AVRSERKLIHT P
 VGNLYIVLSL VADLIVGAV MPNNILYLLM SKWSLGRPLC LFWLSMDYVA STASIFSVEI
 LCIDRYRSVQ QPLRYLKYRT KTRASATILG AWFLSFLWVI PILGNHFMQ QTSVRREDKC
 ETDFYDVTFW KVMTAIINFY LPTLLMLWFY AKIYKAVRQH CQHRELINRS LPSFSEIKLR
 PENPKGDACK PKESPWEVL KRKPKDAGG SVLKSPSQTP KEMKSPVVS QEDDREVDKL
 YCFPLDIVHM QAAEGSSRD YVAVNRSHGQ LKTDQGLNT HGASEISEDQ MLGDSQSFSR
 TDSDTTETA PGKGLRSGS NTGLDYIKFT WKRLRSHSRQ YVSGLHMNRE RKAQKQLGFI
 MAFILCWIP YFIFFMVIAF CKNCCNEHLH MFTIWLGYIN STLNPLIYPL CNENFKKTFK
 RILHRS

Homo
sapiens

145 2121 Histamine H2 NM_022304 Receptor

ctctcgccct ccactgactc cagagagggga gatcccagct acttgactcc atcacgcaga A
 tgggagcagg caccagctat ggagagggat acagctgcgt cttccacatga cccatctcgc
 atgacaccaa agccaccgc agacagtgc tcgatttcta tgcaaaacct gggagcgga
 gacctacccc agccccggga ggaagctagc tcttcagggt accgtctgag gactgaggtt
 tgatccatga acctggcttc gaggccttgc tttctctct tcttcattca tattcattcc
 caacacctta gaagggtgtg ctttaattat tbttagaaaa gcagcccaga gtcagtcaat
 gaagccttcc ccacccccctg gccaaaaaaa aaaaactggac acattttgga
 tctgttggga gcttgagtc cagtgttgg catagtgtgc acattgggag cagagaagaa
 gaaccagggt gccctgatca ggggactgag cctgtagatc ccaggatggc acccaatggc
 acagcctctt ccttttgctt ggactctacc gcatgcaaga tcaccatcac cgtggtcctt
 ggggtcctca tctcatcac cgttgctggc aatgtgtgtc tctgtctggc cgtgggcttg
 aacgcgcggc tccgcaacct gaccaattgt tcatcgtgt ccttggtctat cactgacctg
 ctctcggcc tctgtgtgtt gccctctctt gccatctacc agctgtcctg caagtggagc
 tttgggcaagg tcttctgcaa tatctacacc agcctggatg tgatgctctg cacagcctcc
 attcttaacc tcttcatgat cagcctcgac cgttactggt cgttcatgga cccactgcgg
 taccctgtgc tggtaacccc agttcgggtc gccatctctc tggctttaat ttgggtctac
 tccattaccc tgtcctttct gtctatccac ctgggggtgga acagcaggaag cgagaccagc
 aaggggcaatc ataccacctc taagtgcata cctcccgcta ctgatcatgt gcatcaccta ctaccgcatc
 gatgggctgg tcaccttcta ggcgaagagg atcaatcaca ttagtctctg gaaggcagcc
 ttcaagggtcg cccgggatca ggcgaagagg atcaatcaca ttagtctctg gaaggcagcc
 accatcagggt agcacaaaag cacagtgcac ctggccggccg tcatgggggc cttcatcatc
 tgcgtgtttc cctacttcac cgcgtttgtg tacctggggc tgagagggga tgatgcacatc
 aatgaggtgt tagaagccat cgttctgtgg ctgggctatg ccaactcagc cctgaacccc
 atcctgtatg ctgcgctgaa cagagacttc cgcaccgggt accaacagct cttctgctgc

Homo
sapiens

146	2121	Histamine H2 Receptor	NP_071640.1	aggctggcca accgcaact ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gcgagaaacc caggcaacag gaagagaaac cctgaagct ccaggtgtgg agtggacag aagtcacggc ccccccagga gccacagaca ggtaatagcc ctgaccttg gtcacagga tgggggcaat gggaggagat gctactgatg ggaatgatta agggagtgc tgtttaggtg gtgctggttt atgttctagg aactcttcac gagcactttg taaacacct cttgettaac cctcccaacg gcccccaag gtagaactta gctccctttt aaaaggagca cattaatatt ctcagaggac ttggcaagg cgcacagct ggggcat MAPNGTASSF CLDSTACKIT ITVGLAVLIL ITVAGNVVC LAVGLNRLR NLNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSEFGKVF CNIYSLDVM RNATSLNLF MISLDRYCAV MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHGWS RNETSIGNHT TSKCKVQVNE VYGLVDGLVT FYLPLLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTLAAM GAFIICWEPY FTAIFYRGLR GDDAINEVLE AIVLWLYAN SALNPILYAA LNRDERTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KIQWWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatctccgc gggagcctcg gccctacctg A cgccccgagc gctgcctgc ccccccaacg cagcgctgg ttccccggct gggccgagcc cgacagcaac ggcagcgccg gctcggagga cgcgcagctg gagcccgccg acatctcccc ggccatcccg gtcacatca cggcgggtcta ctccgtagt ttcgtcgtg gcttgggtgg caactcgtg gtcattgtcg tgatcaccg atacacaaag atgaagacag caaccaacat ttacatatatt aactggctt tggcagatgc tttagtact caacccatgc cctttcagag tacgggtctac ttgatgaatt cctggccttt tggggagtgt cgtggaaga tagtaatttc cattgattac tacaacatgt tcaccagcat ctccacctg accatgatga gctggagccg ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcatctgtt ggcattctctg caatagtcc tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctcttg agttcccaga tgatgactac tctgtgtgg acccttctac gaagatctgc gtcttcatct ttgcctctg gatccctgtc ctcatcatca tgcgtctgcta caccctgatg atcctgcgtc tcaagagcgt ccggctcctt tctggctccc gagagaaaaga tcgcaacctg cgtaggatca ccagactggt cctgtgtgtg gtggcggttt tctgctctg ctggactccc attcacatat tcatctggt ggaggtcttg gggagcacct cccacagcac agctgctctc tcagctatt acttctgcat cgcttaggc tataccaaca gtagcctgaa tcccattctc tagcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtcgaaaata cagttcagga tctgcttac ctgagggaca tcatgggat gaataaacca gtagactag tctggagat gtctctgac ag MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VVGLVGNLSV MEVIIRYTKM KTATNIYFN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYY NMFTSIFLT MMSVDRYIAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISALVLGGTK VREDVDVIEC SLQFPDDYS WWDLFMKICV FIFAFVIPVL IIIVCYTIMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTRV RNTVQDPAYL RDIDGMKPV ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo sapiens
147	2783	Opioid Receptor, kappa 1 (OPRK1)	NM_000912	tgcagcactc accatggaat ccccgattca gatctccgc gggagcctcg gccctacctg A cgccccgagc gctgcctgc ccccccaacg cagcgctgg ttccccggct gggccgagcc cgacagcaac ggcagcgccg gctcggagga cgcgcagctg gagcccgccg acatctcccc ggccatcccg gtcacatca cggcgggtcta ctccgtagt ttcgtcgtg gcttgggtgg caactcgtg gtcattgtcg tgatcaccg atacacaaag atgaagacag caaccaacat ttacatatatt aactggctt tggcagatgc tttagtact caacccatgc cctttcagag tacgggtctac ttgatgaatt cctggccttt tggggagtgt cgtggaaga tagtaatttc cattgattac tacaacatgt tcaccagcat ctccacctg accatgatga gctggagccg ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcatctgtt ggcattctctg caatagtcc tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctcttg agttcccaga tgatgactac tctgtgtgg acccttctac gaagatctgc gtcttcatct ttgcctctg gatccctgtc ctcatcatca tgcgtctgcta caccctgatg atcctgcgtc tcaagagcgt ccggctcctt tctggctccc gagagaaaaga tcgcaacctg cgtaggatca ccagactggt cctgtgtgtg gtggcggttt tctgctctg ctggactccc attcacatat tcatctggt ggaggtcttg gggagcacct cccacagcac agctgctctc tcagctatt acttctgcat cgcttaggc tataccaaca gtagcctgaa tcccattctc tagcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtcgaaaata cagttcagga tctgcttac ctgagggaca tcatgggat gaataaacca gtagactag tctggagat gtctctgac ag MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VVGLVGNLSV MEVIIRYTKM KTATNIYFN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYY NMFTSIFLT MMSVDRYIAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISALVLGGTK VREDVDVIEC SLQFPDDYS WWDLFMKICV FIFAFVIPVL IIIVCYTIMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTRV RNTVQDPAYL RDIDGMKPV ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo sapiens
148	2783	Opioid Receptor, kappa 1 (OPRK1)	NP_000903.1	tgcagcactc accatggaat ccccgattca gatctccgc gggagcctcg gccctacctg A cgccccgagc gctgcctgc ccccccaacg cagcgctgg ttccccggct gggccgagcc cgacagcaac ggcagcgccg gctcggagga cgcgcagctg gagcccgccg acatctcccc ggccatcccg gtcacatca cggcgggtcta ctccgtagt ttcgtcgtg gcttgggtgg caactcgtg gtcattgtcg tgatcaccg atacacaaag atgaagacag caaccaacat ttacatatatt aactggctt tggcagatgc tttagtact caacccatgc cctttcagag tacgggtctac ttgatgaatt cctggccttt tggggagtgt cgtggaaga tagtaatttc cattgattac tacaacatgt tcaccagcat ctccacctg accatgatga gctggagccg ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcatctgtt ggcattctctg caatagtcc tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctcttg agttcccaga tgatgactac tctgtgtgg acccttctac gaagatctgc gtcttcatct ttgcctctg gatccctgtc ctcatcatca tgcgtctgcta caccctgatg atcctgcgtc tcaagagcgt ccggctcctt tctggctccc gagagaaaaga tcgcaacctg cgtaggatca ccagactggt cctgtgtgtg gtggcggttt tctgctctg ctggactccc attcacatat tcatctggt ggaggtcttg gggagcacct cccacagcac agctgctctc tcagctatt acttctgcat cgcttaggc tataccaaca gtagcctgaa tcccattctc tagcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtcgaaaata cagttcagga tctgcttac ctgagggaca tcatgggat gaataaacca gtagactag tctggagat gtctctgac ag MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VVGLVGNLSV MEVIIRYTKM KTATNIYFN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYY NMFTSIFLT MMSVDRYIAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISALVLGGTK VREDVDVIEC SLQFPDDYS WWDLFMKICV FIFAFVIPVL IIIVCYTIMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTRV RNTVQDPAYL RDIDGMKPV ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo sapiens
149	2964	Luteinizing	NM_000233	aggctggcca accgcaact ccacaaaact tctctgaggt ccaacgcctc tcagctgtcc aggacccaaa gcgagaaacc caggcaacag gaagagaaac cctgaagct ccaggtgtgg agtggacag aagtcacggc ccccccagga gccacagaca ggtaatagcc ctgaccttg gtcacagga tgggggcaat gggaggagat gctactgatg ggaatgatta agggagtgc tgtttaggtg gtgctggttt atgttctagg aactcttcac gagcactttg taaacacct cttgettaac cctcccaacg gcccccaag gtagaactta gctccctttt aaaaggagca cattaatatt ctcagaggac ttggcaagg cgcacagct ggggcat MAPNGTASSF CLDSTACKIT ITVGLAVLIL ITVAGNVVC LAVGLNRLR NLNCFIVSL P AITDLLGLL VLPFSAIYQL SKWSEFGKVF CNIYSLDVM RNATSLNLF MISLDRYCAV MDPLRYPVLV TPVRVAISLV LIWVISITLS FLSIHGWS RNETSIGNHT TSKCKVQVNE VYGLVDGLVT FYLPLLIMCI TYRIFKVAR DQAKRINHIS SWKAATIREH KATVTLAAM GAFIICWEPY FTAIFYRGLR GDDAINEVLE AIVLWLYAN SALNPILYAA LNRDERTGYQ QLFCCRLANR NSHKTSLRSN ASQLSRTQSR EPRQEEKPL KIQWWSGTEV TAPQGATDR tgcagcactc accatggaat ccccgattca gatctccgc gggagcctcg gccctacctg A cgccccgagc gctgcctgc ccccccaacg cagcgctgg ttccccggct gggccgagcc cgacagcaac ggcagcgccg gctcggagga cgcgcagctg gagcccgccg acatctcccc ggccatcccg gtcacatca cggcgggtcta ctccgtagt ttcgtcgtg gcttgggtgg caactcgtg gtcattgtcg tgatcaccg atacacaaag atgaagacag caaccaacat ttacatatatt aactggctt tggcagatgc tttagtact caacccatgc cctttcagag tacgggtctac ttgatgaatt cctggccttt tggggagtgt cgtggaaga tagtaatttc cattgattac tacaacatgt tcaccagcat ctccacctg accatgatga gctggagccg ctacattgcc gtgtgccacc ccgtgaaggc ttgggacttc cgcacacctt tgaaggcaaa gatcatcaat atctgcatct ggctgctgc gtcatctgtt ggcattctctg caatagtcc tggaggcacc aaagtcaggg aagacgtcga tgcattgag tgcctcttg agttcccaga tgatgactac tctgtgtgg acccttctac gaagatctgc gtcttcatct ttgcctctg gatccctgtc ctcatcatca tgcgtctgcta caccctgatg atcctgcgtc tcaagagcgt ccggctcctt tctggctccc gagagaaaaga tcgcaacctg cgtaggatca ccagactggt cctgtgtgtg gtggcggttt tctgctctg ctggactccc attcacatat tcatctggt ggaggtcttg gggagcacct cccacagcac agctgctctc tcagctatt acttctgcat cgcttaggc tataccaaca gtagcctgaa tcccattctc tagcctttc ttgatgaaaa cttcaagcgg tgtttccggg acttctgctt tccactgaag atgaggatgg agcggcagag cactagcaga gtcgaaaata cagttcagga tctgcttac ctgagggaca tcatgggat gaataaacca gtagactag tctggagat gtctctgac ag MESPIQIFRG EPGTCAPSA CLPPNSSAWF PGWAEPSNG SAGSEDAQLE PAHISPAIPV P IITAVYSVF VVGLVGNLSV MEVIIRYTKM KTATNIYFN LALADALVTT TMPFQSTVYL MNSWPFQDVL CKIVISIDYY NMFTSIFLT MMSVDRYIAV CHPVKALDFR TPLKAKIINI CIWLLSSVG ISALVLGGTK VREDVDVIEC SLQFPDDYS WWDLFMKICV FIFAFVIPVL IIIVCYTIMI LRLKSVRLLS GSREKDRNLR RITRLVLVV AVFVVCWTPI HIFILVEALG STSHSTAALS SYFFICIALGY TNSSLNPILY AFLDENFKRC FRDFCFPLKM RMERQSTRV RNTVQDPAYL RDIDGMKPV ggccgccccat gaagcagcgg ttctcggcgc tgcagctgct gaagctgctg ctgctgctgc A	Homo

sapiens

Hormone/Chor
iogonadotrop
in Receptor

agccgcgcgt gccacgagcg ctgcgcgagg cgctctgccc tgagccctgc aactgcgtgc
 ccgacggcgc cctggcgtgc ccggggccca cgccgggtct cactcgacta tcacttgccct
 acctccctgt caaagtgatc coactctcaag ctttcagagg acttaattgag gtcataaaaa
 ttgaaatctc tcagattgat tccctggaaa gtagagaagc taatgccttt gacaaacctc
 tcaatttgtc tgaataactg atccagaaca ccaaaatctc gagatacatt gagcccgag
 cattataaaa tcttcccgga ttaaaatact tgagcatctg taacacaggc atcagaaagt
 ttccagatgt tacgaaggtc ttctcctctg aatcaaat tttctggaa atttgata
 acttacat aaccaccata ccaggaaatg ctttcaagg gatgaataat gaactgttaa
 cactcaaat atatggaaat ggatttgaag agtaacaaag tcatgcattc aatgggacga
 cactgacttc actggagcta aggaaaaacg tacatctgga gaagatgcac aatggagcct
 tccgtggggc cacagggccg aaaaccttgg atatttcttc caccaaat tgcagccctgc
 cgagctatgg cctagagtc cctcagaggc taattgccac gcatctctat tctctaaaaa
 aattgccatc aagagaaaca ttgtcaatc tccgtggagg caecttgact taccacagcc
 actgctgtgc ttttagaaac ttgccaaaca aagaacagaa ttttccatc tccatttctg
 aaaaactttc caaacaatgt gaaagcacag taaggaaagt gactaacaac acactttatt
 ctccatgct tgcctgagat gaactgagt cctgaaccag atgcttttaa tccctgtgaa gacattatgg
 ccaagacacc ccgctgtgct cctgaaccag atgcttttaa tccctgtgaa gacattatgg
 gctatgactt ccttagggtc ctgatttggc tgattaat tctagccatc atgggaaaca
 tgactgttct ttttgtctc ctgacaagtc gttacaactc tcaagtgcct cgtttctca
 tgtgcaatct ctcctttgca gacttttgc tgggctcta tctgctgctc atagcctcag
 ttgattccca aaccaaggcc cagtactata accatgccat agactggcag acagggagt
 ggtgcagcac tgcctggctt ttcactgtat tgcgaagtga actttctgc tacacctca
 ccgtcatcac tctagaaaga tggcacacca tccctatgc tattcacctg gacaaaagc
 tgcgattaag acatgccatt ctgattatgc ttggaggatg gctcttttct tctctaattg
 ctatgttggc cctgtcgggt gtcagcaatt acatgaaggc cagtatttgc tccccatgg
 atgtggaac cactctctca caagtctata tattaacct cctgatttct aatgtgtgg
 ccttcttcat aattgtgct tgcacatta aaatttctt tgcagttcga aaccagaat
 taatggctac caataaagat acaagattg ctaagaaat ggcaatcctc atcttcccg
 atttccctg catggcacct atctctttt ttgccatctc agtgccttc aaagtacctc
 ttatcacagt aaccaactct aaagtcttct tggctctttt ttatcccatc aattcttctg
 ccaatccatt tctgtatgca atattcacta agacattcca aagagatttc tttcttttgc
 tgagcaaat tggctgctg aaacgtcggg ctgaactta tagaaggaaa gatttttcag
 ctacacctc caactgcaa aatggcttca ctggatcaaa taagccttct caatccacct
 tgaagtgtc cacattgcac tgtcaaggta cagctctctc agacaagact cgtacacag
 agtgttaact gttacatcag taactgcatt attgaattgt tcttaaacct gtaaaaaaaa
 attacctgta ccagtaattt taacataaaag ggttgatttt agaaattat ttatttttag
 gtacattagg caagagacct ctacctagta gaaagtgtag tctatgacca ctgccacacg
 taataactat ttgtcattgt tacatggcat aaatatgaag ttgagagtgt tttagaattt
 ttatagaaat tttagacacag taattttgt ttatatttct tttaaaaaac agaggaggtg
 ttttgatat ctttttttca ttttctgta ttttataaaa atattagttc
 ataacagatc agaaatttaa ataaggggc tttttcttca ggtagtttga aaaacacact

152	2976	Lysophosphat NP_001392.1 idic Acid Receptor Edg2	gcatgaacc coactatta ctctacgc gacaagaaa tgagcgccac cttaggcag atcctctgct gccagcgag tgagaacccc accggcccca cagaaggctc agaccgctcg gcttctccc tcaaccacac catcttggtc ggagttcaca gcaatgacca ctctgtggtt tagaacggaa actgagatga ggaaccagcc gtctctctt ggaggataaa cagcctcccc ctacccaatt gccagggcaa ggtggggtgt gagagaggag aaaagtcaac tcatgtactt aaacactaac caatgacagt attgttctt ggacccaca agacttgata tataatgaaa attagcttat gtgacaaccc tcatcttgat cccactccct tctgaaagta ggaagtggga gctcttgcaa tggaaattcaa gaacagactc tggagtgctc atttagacta cactaactag acttttaaaa gattttgtgt ggtttgtgtc agtcagaaat aaattctggc tagttgaatc cacaacttca ttatatataca gcttccctt ttttattttt aaaggatacy ttacactaa taaacacggt tatgcctatc agcatgtttg tgatggatga gactatggac tgcttttaaa ctaccataat tccattttt ccttacata ggaactgt aagttggaat tatctttgt ttagaaagca tgcagttaat gtatgtatgc agtagcctt acttaaaaag attaaagga tactaatgtt aaatcttcta ggaatatgaa cctagacttc aaagccagta ttgttttagg tcatgaagca aacaatgctc taatcacaat attaactgtt taattaaaat gttgtaacaa gtataaaaaa gggaatgtaa gtttattacc aaagtgatat gtattccaaa aaagtcatatg aagatgaagc actataatat tgttccata tatttaaaat accaagtac attctaatta ccagtatac agagaaaaat tttcgtagtc tttgtaaaat aatatactca tcatagaaaa cttgaaaaat gcagaaatgt ataaaaagc aaaaatgatt actgataata tcacaaccca gaagttaacca cctttaaaaa gcaaccccca tgtatgccta tatgtgtatt ttatactttt tttacataat tggagtcata ctgtaaacag ttttataagt agatcttttt cattgcaaaa ttgccacatt ttcttatggc attaaaaatt ttacaaaaac ataatttttaa tggctatatt atattccatt taatggatgc aactcagttt atttaacat tccatgttg ttaactattt aggtgtttc taattttcat tattataaag ttgcagaaat ttggtgt IFIMLANLLV MVAIYNRRF HFPIIYLMAN LAAADFFAGL AYFYLMENGT PNTRRLTVST WLLRQGLIDT SLTASVANLL AIAIERHITV FRMLHTRMS NRRVWVIV IWTMAIVMGA IPSVGNWCIC DIENCSNMAP LYSDSYLVFW AIFNLVTFV MVLYAHIFG YVRQTRMS RHSGPRNR DTMSSLKTV VIVLGAFTIC WTPGLVLLL DVCCPQCDVL AYEKFFLLA EFNSAMNPPII YSYRDKEMSA TFRQILCCQR SENFTGPTES SDRSASSLNH TILAGVHSND HSV	Homo sapiens
153	3038	G Protein- Coupled Receptor MRG	ttttgtattt gttgcacct aagtctgttc atttcttct cctcagctga cattggagc A atagcagtcg atgatgccc cacagacact gcctgagact cagccccctg gagaaacyca gatttctcta tttccaggt caagtcctgc cagccataga aaggacttct ttggtgccaa ctgtgtgtga atgctgtcct tggaaatctc agtctccct tgtacctgc tgagccagg gaaatgccat actgtggcac tgcctgcatc tgtatggcta ccaaggatg cccaggactg gtttgaaaga gatgagacat gccaggtgc gtggtccacg ctgttaatcc agcactttgg gaggtcaagg cagtggatca caaggtcaga gttgagacca gccaggccaa tatggtgaaa accccatctc tactaaaaat acaaaaaatt agccgggcaa tgggtgtggg tgcctgtagt tccagctagt caggaggccg aggcaggaga atcgcttgaa cctgggaagt ggaggttcca gtgagctgag atcgcgccac tgcactccag cctgggtgac agagtgagac tccaaactcaa	Homo sapiens

154	3038	G Protein- Coupled Receptor MRG	AAB21255.1	<p> aaaaaaaaa aaaaaagaga tgagacacta gtgtctcatg agtagaacct ggaccagaca caaatctcca ttcccaatgt ttagtgctc attagtgccc aacaaacaga tattgggtct atgtgggtag gcctggggca tcctgtacaa caggagatgt gtaggggag ggagaacaga tcacaaattc atggagagct attgcagag cagatactcc catccactct gatattgtagt taatgttcag ctgttcctaa aaagcacacc caacaatggg tgttctattc cagcctagga aaatgtagag gcaaggggtc tgaggccaga ggacaccact agatggacca ctgtcctga ctgtgatgtt gtggccact caggtccag cccccatgg tctgggggaa aatttgttgg ttcagccaga gggtggatg jacagtgtt gctgagtcac agatatctct ctcattgtagc ctttgtctcc acagtggatg ccaggaggca cagaacccaa acctggtatc tcagctctgt gggtctttc ttcaaaatga gacgaatgaa accatacata tgcagatgag catggcagtg ggacagcagg cctgcccctt gaatacatt gccccaagg ctgtgctggt ctcctctgt gggtctttat tgaatggcac tgtctcttgg ctgcttttgc gtggggccac gaatccctac atggtatata tctccacct ggtcgtgct gtaacttat catggagtcg tgttttttat cctgatttc gggttcttac aggtgactct ctcctttgag gtgtgtctct gtctcctggt ggccatcagc ctggccatat tgtctccctt cctcttccc atctggtaca gatgccacg cccaaatac acagagcgtt gtgtgtgtgt cctctccc cctcatctgg ggctgcctt ttgcatcaa catagtaaaa acatctaag ttgtctgac taacttactg gaaacatgta aggcattgt tcataattct aagcttct tcaatttcc taacttactg gaaacatgta aggcattgt tcataattct aagcttct gggtcttcc atgtatctt ttcaattgtg atgtgtgtgt cgagtctgac tctactcatt agattcctgt gctgctccca cagacaaaag gccaccaggg tctatgcgtt ggtgcagatc tcggccccc tgttctact ctgggcccta cctctattt attcctgtt tgcacacct cataacagat ttcaaaatgt ttgtaccac cctctattt attcctgtt tgcacacct cataacagat gccaccccta tcaatttatt ctttgtggg agcctcagaa agaaaaggct gaaggatct ctcagagtga ttctccaaag ggcttagca gataagccag aggtggggag gaacaaaaag gcagctggca tcgacccaat ggagcaacca cactctact agcatgtgga gaacctctt cccagggagc acagggtcga ttgtgaaaca taatttccc catctgagct ggggaattgt acacataga accagcctg ttctgcatca taaggctgct gcatcaaatc aatgctttat tctaataag ttcagcttcc atggacttcc aaacaaacc cttgctgttt gtggttgga gagacattaa ctctcttct aggcagtaag ccagtttga atgtgtcca gtccaacga tgaggggaat gggaccagt gagacttcc tggtaacctgt ggaatccaaa taaagaccat acaaaggcat gaattc </p>	Homo sapiens
155	3057	Melanocortin 3 Receptor (MC3R)	NM_019888	<p> atgagcatcc aaaagaagta tctggaggga gatttgtct tctctgtgag cagcagcagc A ttctacgga cctgtctgga gcccagctc ggatcagccc ttctgacagc aatgaatgct tcgtgtgctgc tgcctctgt tcagccaaca ctgcctaag gctcggagca cctccaaagcc </p>	Homo sapiens

156	3057	Melanocortin NP_063941.1 3 Receptor (MC3R)	<p> cctttcttca gcaaccagag cagcagcgcc ttctgtgagc aggtcttcat caagccccgag atcttctgt ctctgggcat cgtcagttctg ctggaataa tctgtgttat cctggccgtg gtcaggaaag gcaacctgca ctccccgatg tactttttc tctgcagcct ggcgtgtgccc gacatgttgg taagtgtgtc caatgcccgt gagaccatca tgatcgccat cgtccacagc gactacctga ccttcgagga ccagtttacc cagccatgag acacatctt cgactccatg atctgcatct cctgggtggc ctccatctgc aacctctgg ccctgcctg cgacaggtac gtcaccatct tttaacgcgt ccgtaccac agcatcatga ccgtgagga ggcctcacc ttgatctggg ccactgtggg ctgctgggc gtctgtggc ttgtgttcat cgtctactcg gagagcaaaa tggatattgt gtgcctcacc accatgttct tggccatgat cgtcctcatg ggcacctct acgtgcacat gtctctcttt gcgcggctgc agtcaagcg catagcagca ctgccacctg ccgacggggg gtccccacag caacatcat gcatgaagg ggcagtcacc atcacatttc tctgtggcgt gtctatcttc tgtgtggccc ccttcttct ccacctggtc ctcatcatca cctgccccac caacctctac tgcattctgt acactgccc cttcaaaccc tacctgtgtc tcatcatgtg caactcgtc atcgaccac tcatctacgc tticcggagc ctggaattgc gcaacacct tagggagatt ctctgtggct gcaacggcat gaacttggga tag </p>	Homo sapiens
157	3058	Melanocortin NM_005912 4 Receptor (MC4R)	<p> MSIQKYLEG DFVFPVSSS FLRTLLERQL GSALLTAMNA SCCLPSVQPT LPNGSEHLQA P PFFSQSSSA FCEQVFIKPE IFLSLGIIVSL LENILVILAV VRNGNLSPM YFFLCSLAVA DMLVSNAL ETIMIAIVHS DYLTFEDQFI QHMDNIFDSM ICISLVASIC NLLAIAVDYR VTIFYALRYH SIMTVRKALT LIVAIWVCCG VCGVVFIVYS ESKMIVIVCLI TMFFAMMLLM GTLVYHMFLE ARHLVKRIAA LPPADGVAPO QHSCMKGAVT ITILLGVFIF CWAPFFLLHV LIITCPNTPY CICYTAHENT YLVLMCNVS IDPLIYAFRS LELRNTFREI LCGCNGMNLG atgttgaact ccacccaccg tgggatgcac acttctctgc acctctgga ccgcagcagt A tacagactgc acagcaatgc cagtgaagtc cttgaaaaag gctactctga tggagggtgc tacgagcaac tttttgtctc tcttgagggtg tttgtgactc tgggtgtcat cagcttgttg gagaatatct tagtgattgt ggcaatagcc aagaacaaga atctgcattc accatgtac ttttcatct gcagcttggc tgtgctgtat atgtctgtga gcgtttcaaa tggatcagaa accattatca tcacctatt aaacagtaca gatacggatg cacagagttt cacagtgaat attgataatg tcatctgactc ggtgatctgt agtctcttgc ttgcattcat ttgcagcctg ctttcaattg cagtgagacag gtactttact atcttctatg ctctccagta ccataacatt atgacagtta agcgggttgg gatcatcata agttgtatct gggcagcttg cacggtttca ggcattttgt tcatcattta ctcatagatg agtctgttca tcatctgct catcaccatg ttcttcacca tgtgtgctct catggttctt ccttatgtcc acatgttctt gatggccagg cttcacatta agaggattgc tgtctctccc ggcactgggt ccacccgcca aggtgccaat atgaaggagg cgattacatt gaccatctct attggcgtct ttgtgtctg ctgggccccca ttcttctctc acttaattt ctacatctct tgtctctcaga atccatattg tgtgtgcttc atgtctcact ttaacttga tctcactgtg atcatgtga attcaatcat cgtatcctctg atttatgcac tccggagtca agaactgagg aaaccttca aagagatcat ctgttctctat cccttgggag gcctttgtga cttgtctagc agatattaa MVNTHRGMH TSLHLNRRS YRLHNSAVES LGKGYSDGGC YEQLFVSPEV FVTLGVISLL P ENILVIVAIA KKNLHSPMY FFICSLAVAD MLVSVSNGSE TIIITLLNST DTDAQSFTVN </p>	Homo sapiens
158	3058	Melanocortin NP_005903.1 4 Receptor		Homo sapiens

159	3059	Melanocortin NM_005913 5 Receptor (MC5R)	IDNVDSVIC SLLASICSLSLSIAVDRIYFTIFYALQYHNI MTVKRVGIII SCIWAACTVS GILFIYSDS SAVIICLITM FFTMLALMAS LYVMFLMAR LHIKRIAVLP GTGAIRQGAN MKGAITLTIL IGVFVWCWAP FFLHLIFYIS CPQNPYCVCF MSHFNLYLIL IMCNSIIDPL IYALRSQELR KTFKEIICCY PLGGLCDLSS RY atgaattcct catttcacct gcattttcttg gatctcaacc tgaatgccac agaggccaac A ctttcaggac ccaatgtcaa aacaagtct tcacatgtg aagacatggg cattgctgtg gagtggttc tcaactcggg tgtcatcagc ctcttgaga acatcttggt cataggggcc atagtgaaga acaaaaacct gcactcccc atgtacttct tcgtgtgcag cctggcagtg gcggacatgc tggtagagcat gtccagtgc ttggagacca tcaccatcta cctactcaac aacaagcacc tagtgatagc agacgcttt ttgggccaca ttgacaatgt gttgactcc atgatctgca ttccgtggt ggcatccatg tgcagcttac tggccattgc agtggatagg tacgtacca tcttctacgc cctgcgtac caccacatca tgacggcgag gcgctcaggg gccatcatcg cggcatctg ggcttcttcg acgggctgcg gcattgtctt catcctgtac tcagaatcca cctacgtcat cctgtgctc atctccatgt tcttcgtat gctgttctc ctggtgtctc tgtacataca catgttctc ctggcgcgga ctcacgtcaa gcggatcgcg gctctgccc gggccagctc tgcggcgag aggaccagca tgcagggcg ggtcacccgtc accatgctgc tggcggtgtt taccgtgtgc tggggcccg tcttcttca tctcattta atgcttctt gccctcagaa cctctactgc tctcgttca tgtctcactt caatatgtac ctcactactea tcatgtgtaa ttcggtgatg gacctctca tatatgcctt ccgcagccaa gagatcgga agaccttaa ggagattatt tgcgtccgtg gtttcaggat cgcctgcagc tttccagaa gggattaa	Homo sapiens
160	3059	Melanocortin NP_005904.1 5 Receptor (MC5R)	IVKNKLNHSP MYFFVCSLAV ADMLVMSA WETIITYLLN NKHLVIADAF VRHIDNVFDS MICISVWASM CSLIAIADR YVTIFYALRY HHIMTARRSG AIIAGIWAFC TGGGIVFILI SESTYVILCL ISMFFAMLFL LVSLYIHMFL LARTHVKRIA ALPGASSARQ RTSMQGAIVTV TMLLGVFTVC WAPFFLHLTL MLSCPQNLIC SRFMSHFMY LILIMNSVM DPLIYAFRSQ EMRKFKEII CCRGFRIACS FPRRD ggagagggtg tgagggcaga tctgggggtg cccagatgga aggaggcag catgggggac A accaaggcc cctgggcagc accatgaact aagcaggaca cctggagggg aagaactgtg gggacctgga ggcctccaac gactccttc tgcctcctg acaggactat ggctgtgcag ggatccaga gaagacttct ggcctcctc aactccacc ccacagccat cccccagctg gggctggctg ccaaccagac aggagcccg tgcctggagg tgcctatctc tgacgggctc tctcagcc tggggctggt gagcttggtg gagaacgcgc tgggtggtgc caccatcgcc aagaaccgga acctgcact acctatgtac tgcctcatc gctgcctggt cttgtcgagc ctgtggtga gcgggagcaa cgtgctggag acggcgtca tctcctgct ggaggccggt gcactggtg cccgggctgc ggtgctgcag cagctggaca atgtcattga cgtgateacc tgcagctcca tgcgtgccag cctctgctc ctgggcgcca tgcctgtgga ccgctacatc tccatctct acgcactgcg ctaccacagc atcgtgacc tgcgcgggc gcggcaagcc gttcgggcca tctgggtggc cagtgtcgtc ttcagcacgc tcttcacgc ctactacgac cagtgggcg tctgtgtgtg cctcgtggtc tcttctctg ctatgctggt gctcattggc gtgctgtacg tccacatgct ggcccgggc tgcagcagc cccagggcat cgcgggctc	Homo sapiens
161	3061	Melanocortin NM_002386 1 Receptor (MC1R)		Homo sapiens

162	3061	Melanocortin NP_002377.2	IGSLNSTPTA IPQLGLAANQ TGAARCLEVSI SDGLFLSLGL VSLVENALVW P	Homo sapiens
		1 Receptor (MCLR)	ATIAKNRNLS SPMYCFICCL ALSDLIVSGS NVLETAVILL LEAGALVARA AVLQQLDNVI	
			DVITCSSMLS SLCLFLGAIAV DRYISIFYAL RYHSIVTLPR ARQAVAAIWW ASVVFSTLFI	
			AYYDHVAVLL CLVVFLLAML VLMVLYVHM LARACQHAQG IARLHKRQRP VHQGFGLKGA	
			VTLLILLGIF FLCWGPFFLH LTLIVLCPEH PTCGCIFKNE NLFLALIION AIIDPLIYAF	
			HSQELRRTLK EVLTCSW	
163	3079	Melatonin Receptor type 1a	cgggcgagc cttacaagt ggtcggggcg gggagcaggg cgggcgatgg cctcggggcc A	Homo sapiens
			gggacgcgaa cagggaacat gcaggggcaac ggagcgcgcg tgcccaacgc cteccagccc	
			gtgtccgcg gggacggcg gcggccctcg tggctggcgt ccgccctagc ctgcgtctc	
			atcttcacca tctgtgtgga cactctgggc aacctctgg tcatcctgct ggtgtatcgg	
			aacaagaagc tcaggaaacgc aggaacacatc ttgtgtgga gcttagcggt ggcagacctg	
			gtggtggcca tttatccgta ccggtgtgtg ctgatgtcga tatttaacaa cgggtggaac	
			ctgggtctatc tgcactgcca agtcagtggg ttcctgatgg gcctgagcgt catcggtctc	
			atattcaaca tcaccgggat cgccatcaac cgctactgct acatctgcca cagtctcaag	
			tacgacaaac tgtacagcag caagaactcc ctctgtacg tgctcctcat atggtctctg	
			acgtggcgcg ccgtctctgc caacctccgt gaagggaactc tccagtaaga cccgagatc	
			tactcgtgca ccttcgcca gtccgtcagc tccgctaca ccctgcctg ggtggttttc	
			cacttcctcg tcccatgat catagtcatc tctgtgtacc tgagaatatg gatccctggt	
			ctccaggtca gacagagggg gaaacctgac cgaacaccca aactgaaacc acaggacttc	
			aggaattttg tcaccatgtt tgtggttttt gtctctttg ccatttctg ggctcctctg	
			aacttcattg gcctggccgt ggctctgac ccgcccagca tgggtgcctag gatccagag	
			tggctgtttg tggccagtta ctacatggcg tatttcaaca gctgcctcaa tgccattata	
			tacgggctac tgaacccaaa tttcagggaag gaatacagga gaattatagt ctgcctctgt	
			acagccaggg tgttctttgt ggacagctct aacgacgtgg ccgatagggt taaatgaaa	
			ccgtctccac tgatgaccaa caataatgta gtaagggtgg actccgttta aaaaagcacc	
			acgttccggg tgagatggac acgtgcgca aggcctcgct cttgacagat gtctgggaaa	
			gcagagtgtg ggaggaaact tccaactttt acctggctgc tgccatagtt tctgagctaa	
			cgtgctgtca gcattataaa cccctccaat ctactagtca agagaagtac agaattgtatg	
			gagagttaca tgttaactga ggaatgcggt tcagggtctgg ggtgagagta agctgctgaa	
			tgcattcagg ggaaggagtg tgcaacttt tattgtaaat gagtgccaca aaagggttaa	
			ttgcattctt ctacactttt tgaagacttc tagcagaaaa atgaaagaga attttatta	
			taaatgagca aatggaacaa ttttttttct gtaaatggaa caaacaatga aagtgggtg	
			agtgcctctt attacagagg gaaaggctga acataaatca gttaatggct catcaacaat	

164	3079	Melatonin Receptor type 1a	NP_005949.1	<p> cacaaccaca accaacacacca caaacctttc agctggcaga gttagcattg ggtagctata ctcatgggtca taaatgtttg cgcctctata ttacaagttg tgcatacaac cagataaaga actaaatcat aggcgggga cagtcgctca cacctgtaat ctacgacctt tgggaggctg agggtggcag atcaactgag ttcaaggatt tgagaccacc ctggggcaac atgatgaaat cccatctcta aaaaaatata aaaaattatc tgggcatggt gcacacgcct gtaatcccag ctactcagga gactgagtta ggagaatccc ttgagcccca gaggcagagg ttgtggtgag ccgagatcgc gccagtacat tccaacttag gctacagaat gagactctgc ccaaaaaa aaaaaaa </p>	Homo sapiens
165	3080	Melatonin Receptor type 1b	NM_005959	<p> AGNIFVSLA VADLVVAIYP YPLVLMISFN NGWNLGYLHC QVSGFLMGLS VIGSIFNITG IAINRYCYIC HSLKYDKLYS SKNSLCYLL IWLTLAVAL PNLRACTLQY DPRIYSCFTA QSVSSAYTIA VVHFELVPM IIVIFCYLRI WILVLQVRQR VKPDRPKLK PQDFRNFVTM FVFEVLEAIC WAPLNFGLA VASDPASMVP RIPEWLFVAS YIMAYFNSCL NAIYGLLNQ NFKKEYRRII VSICTARVFF VDSNDVADR VKWKPSPLMT NNNVVKVDSV </p>	Homo sapiens

166	3080	Melatonin Receptor type 1b	NP_005950.1	<p>ttggttaacta caagggcctc aggtggggca ggtcgagagg gc</p> <p>VLSVLNRK LRNAGNLFV SLALDLVA FYFPLILVA IFYDGMALGE EHCKASAFVM</p> <p>GLSVIGSVFN ITAIAINRYC YICHSMAYHR IYRRWHTPLH ICLIWLLTW ALLPNFFVGS</p> <p>LEYDPRIYSC TFIQTASTQY TAAVVVIHFL LPIAWSFY LRIWLVLLQA RRKAKPESRL</p> <p>CLKPSDLRSE LTMFVVFVIF AICWAPLNCI GLAVAINPOE MAPOIPEGLF VTSYLLAYFN</p> <p>SCLNIAIVYGL LNQNFREYK RILLALWNP RHCIQDASKGS HAEGLOQSPAP PIIGVQHQAQ</p> <p>AL</p>	Homo sapiens
167	3081	Melatonin- Related Receptor	NM_004224	<p>tggttgctgt ctggacctgg ctgtgatcc tgagcctgct gggagatctt aacgatcccc A</p> <p>aggagcaaca tggggcccac cctagcggtt cccacccct atggtgtgtat tggctgtaag</p> <p>ctaccccagc cagaataccc accggctcta atcatcttta tgtctgagc gatggttatc</p> <p>accatcggtg tagacctaat cggcaactcc atggtcattt tggctgtgac gaagacaacg</p> <p>aagctccgga attctggcaa catctctgtg gtcagtctct ctgtggccga tatgtgggtg</p> <p>gccatctacc catacccttt gatctgcat gccatgtcca ttgggggctg ggaatcgagc</p> <p>cagttacagt gccagatggt cgggttcac acagggctga gtgtggtgg ctcacatctc</p> <p>aacatcggtg caatcgctat caaccgttac tgetacatct gccacagcct ccagtacgaa</p> <p>cggatcttca gtgtgcgcaa tacctgcac tacctggta tcacctggat catgaccgtc</p> <p>ctggctgtcc tgcccaacat gtacattggc accatcgagt acgacctcg caccataccc</p> <p>tgcattcttca actatctgaa caacctgtc ttcactgtta ccactgtctg catccacttc</p> <p>gtctccctc tcctcatggt gggtttctgc ttcagttaga tctggacca agtgcctggc</p> <p>gccctgacc ctgcagggca gaatcctgac aaccaacttg ctgaggttcg caatttctta</p> <p>accatggtt tgatcttct cctcttctga gtgtgctggt gccctataca cgtgtcact</p> <p>gtcttggtgg ctgtcagttc gaaggagatg gaaggcaaga tcccaactg gctttatctt</p> <p>gcagcctact tcatagccta cttaacagc tgcctcaacg ctgtgatcta cgggctcctc</p> <p>aatgagaatt tccgaagaga atactggacc atcttccatg ctatgcggca cccatcata</p> <p>ttcttccctg gcctcatcag tgatattcgt gagatgcagg aggccgtac cctggcccg</p> <p>gccctgccc atgctcgca ccaagctcgt gaacaagacc gtgcccatg ctgtcctgct</p> <p>gtggaggaaa ccccgatgaa tgtccggaat gttccattac ctggtgatgc tgcagctggc</p> <p>caccccgacc gtgcctctgg ccacctaaag cccatttcca gatcctctc tgcctatcgc</p> <p>aaatctgcct ctacccacca caagtctgtc tttagccact ccaaggctg ctctggtcac</p> <p>ctcaagcctg tctctggcca ctccaagcct gccctggtc acccaagtc tgcactgtc</p> <p>tacctaaag ctgcctctgt ccatttcaag ggtgactctg tccatttcaa ggtgactct</p> <p>gtccatttca agcctgactc tgttcatctc aagcctgctt ccagcaacc caagcccatc</p> <p>actggccacc atgtctctgc tggagccac tccaaagtctg ccttcagtgc tgcacacagc</p> <p>cacctaaac ccatcaagc agctaccagc catgctgagc ccaccactg tgactatccc</p> <p>aagcctgcca ctaccagcca ccctaagccc gctgctgctg acaaccctga gctctctg</p> <p>tccattgccc ccgagatccc tgccattgccc caccctggt ctgacgacag tgacctcct</p> <p>gagtcggcct ctagccctgc cgctgggccc accaagcctg ctgcccagca gctggagtct</p> <p>gacacctatg ctgaccttcc tgacctact gtatgacta ccagtaccaa tgattacat</p> <p>gatgtcgtgg ttggtgatgt tgaagatgat cctgatgaaa tggctgtgtg aaaaatgctc</p> <p>tcgtaggtgg ccaggcagt</p>	Homo sapiens

168	3081	Melatonin- Related Receptor	NP_004215.1	MGPTLAVPTP YGCIGCKLPQ PEYPPALIIF MFCAMVITIV VDLIGNSMVI LAVTRNKKLR P NSGNIFWVSL SVADMLVAIY PYPMLHAMS IGGWDLSQLQ QOMVGFTIGL SVGSIENIV AJAINRYCYI CHSLQYERIF SVRNTCIYLV ITWIMTVLAV LPNMYIGITIE YDPRTYTCIF NYLNNPVTV TIVCIHFVLP LLIVGFCYVR IWKVLAARD PAGONPDNQL AEVRNFLTME VIFLLEAVCW CPINVLTVLV AVSPKEMAGK IPNWLYLAAY FIAYFNNSCLN AVIYGLINEN FRREYWTIFH AMRHPIIFFP GLSIDIREMQ EARTLARARA HARDQAREQD RAHACPAVEE TPMNVNRNVL PGDAAAGHPD RASGHPKPHS RSSASAYKSA STHKSVFESH SKAASGHLKP VSGHSPASG HPKSATVYPK PASVHFKGDS VHFPGDSVHF KPDSVHFKPA SSNPKPITGH HVSAGSHSKS AFSAAATSHPK PIKPATSHAE PTTADYKPKA TTSHPKPAAA DNPELSASHC PEIPALAHV SDDSDLPESA SSPAAGPTKP AASQLESMTI ADLPDPTVVT TSTNDYHDVW VVDVEDDPDE MAV	Homo sapiens
169	3093	Metabotropic Glutamate Receptor 1	NM_000838	gaattccctt acaaacgcct ccagcttgta gaggcggctg tggaggaccc agaggaggag A acgaaggga agaggcggt ggtgaggag gcaaaagcct tggacagcca ttgttggcga ggggcaccac tccgggagag gcggcgctgg gcgtcttggg ggtgcgcgc gggagcctgc agcgggacca gcgtgggaac gcggctggca ggtgtggac ctgcctctca ccaccatggt cgggctcctt ttgtttttt tccagcgat ctttttggag gtgtcccttc tcccagaag ccccggcagg aaagtgttcg tggcaggagc gtcgtctcag cgctcgttgg ccagaatgga cggagatgc atcattggag cctcttctc agtccatcac cagcctccgg ccgagaaagt gccgagagg aagtgtggg agatcaggga gcagtatggc atccagagg tggaggccat gtccacacg ttggataaga tcaacgcgga ccgggtctc ctgcccaaca tcacctggg cagtgcagc cgggactcct gctggcactc ttcgtggct ctggaacaga gcattgagtt cattaggac tctctgatt ccattcgaga tgagaaggat gggatacaac ggtgtctgccc tgacggccag tccctccccc caggcaggac taagaagccc attgcgggag tgatcgggtcc cggctccagc tctgtagcca ttcaagtga gaacctgctc cagctcttcg acatccccc gatcgcttat tcagccacaa gcctgcacct ggtgacaaa acttgtaca aatactcct gagggttgtc cttctgaca cttgcaggc aaggccatg cttgacatag tcaaacgtta caattggacc tatgtctctg cagtcacac cctctgtatc gcccattctg acaaatcta cgctttcaaa gagctggctg ccagggaag cctctgacc actcttgcg aaactccgag agaggcttcc cagcaacgct ggggagaaga gcttgcagg gcttgcagg aggcagcag tccctgagcgc caaggctaga gtggtggtct gcttctgtga aggcagcaga gtgcgaggac tccctgagcgc catgcggcgc cttggcgctc tggcgaggt ctcactcatt ggaagtgatg gatgggcaga cagagatgaa gtcatgaaag gttatgaggt ggaagccaac gggggaatca cgataaagct gcagtctca gaggtcaggt catttgatga ttatttctg aaactgagggc tggacactaa cacgaggaat ccttggttcc ctgagttctg gcaacatcgg ttccagtgc ccttccagg acaccttctg gaaaatccca actttaaac aatctgcaca ggcaatgaaa gcttagaaga aaactatgtc caggacagta agatggggtt tgtcatcaat gccatctatg ccatggcaca tgggctgcag aacatgcacc atgcctctg ccttgcccac gtgggctctc gcatggccat gaagcccatc gacggcagca agctgctgga cttctctc agtctctcat tcatggaggt atctggagag gagggtggtt ttgatgagaa aggagacgct cctgggaaggt atgatcatc gaatctgcag tacactgaag ctaatcgcta tgactatgtg cagttggaa cctggcatga aggagtgcgt aacattgatg attacaaaat ccagatgaac aagagtggag ttgtgcggtc	Homo sapiens

tgtgtgcagt gaggcttgct taaaggcca gattaaggtt atacggaaag gagaaagtgag
ctgtgctgg attgcaagg cctgcaaga gatgaatat gtgcaagatg agttcacctg
caaagcttgg gacttgggat ggtggcccaa tgcagatcta acaggctgtg agccattcc
tgtgcgctat cttgagtgga gcaacatcga atccattata gccatcgctt ttcatgacct
gggaatcctt gttaccttgt ttgtaccctt aatctttgta ctgtaccggg acacaccagt
ggtcaaatcc tccagtcggg agctctgcta catcatccta gctggcatct tccttggtta
tgtgtgcca ttactctca ttgccaacc tactaccacc tctgtctacc tccagcgct
cttggttggc ctctcctctg cgtgtgtcta ctgtgcttta glgactaaaa ccaatcgtat
tgacgcgcatc ctggctggca gaaagaaga gatctgcacc cggaaagccca gtttcagtga
tgctgggct caggtgatca ttgctcaat tctgattagt gtgcaactaa ccttggtggt
aacctgac atcatggaac cccctatgcc cattctgtcc taccaaagta tcaagggaagt
ctaacttacc tgcaatacca gaaacctggg ttgtgtggcc ccttgggctt acaatggact
cctcatcatg agctgtacct actatgacct caagaccgc aactgcccc ccaactcaa
cgaggccaaa tatatcgctt tcaccatgta caccacctgt atcatctggc tagcttttgt
gccattttac ttgtggagca actacaagat catcacaact tgctttggag tgagtctcag
tgtaacagtg gctctggggt gcatgttacc tcccaccac ctctgatgtt gtccgcatgc atgttgcca
tgagaggaaat gtccgcagtg ccttcaccac ctctgactt ccaactttt ttccgaagaa agaaggcagg
tggaagctg cctgcgctt ccaactttt ccaactttt ttccgaagaa agaaggcagg
ggcagggaat gccaatctta atggcaagtc ttgtgcatgt tctgaaccag ttggaaggaca
ggtgccccag ggacagccta ttgtgcaacc cctctctgtg cactgaaga ccaatgagac
ggcctgcaac caaacagccg tcataaacc cctcactaaa agttaccaag gctctggcaa
gagctgacc ttctcagata ccagcaccac gacctttac aactgtaggg aggagaggga
tgccagcgg attcgttta gccgcctgg tagcccttcc atggtgtgc acaggcgct
gccaagcgg ggcaccactc cgctctgccc gccaccctg accgagagg agacccct
cttctgccc gaaccagccc tcccgaagg ctgtccccc cctctccagc agcagagca
acccctcca cagcagaaat cgctgatgga ccagctccag ggagtgttca gcaacttcag
tacgcgcatc ccgattttc acgcgtgctt ggagggccc ggggttccc ggaacgggct
gcgttccctg taccgccc ccgaccgc ccgaccgc cagatgctgc cgctgcagct
gagcacctt ggggaggagc ttgttcccc gccgcggac gacgacgag acagcgagag
gtttaagctc ctccaggagt acgtgtatga gcaagagcgg gaagggaaca cggaaaga
cgaactggaa gaggaggagg aggacctgca ggcgccagc aaactgacc cgatgattc
gcctgcgctg acgcctcctg cgcttctccg cgactcggtg gcctcgggca gctcggtgccc
cagctcccca gtgtccgagt cggtgtctg caccctccc aactatcct acgcctctgt
catctgccc gactacaagc aaagctcttc caccctgtaa gggggaagg tccacataga
aaagcaagac aagccagaga tctccacac ctccagatgt gtgcaaacag ctgggaggaa
aagcctggga gtggggggcc tcgtcgggag gacaggagac cgctgctgct gctgcgcta
ctgtgctgc tgccttaagt aggaagagag ggaaggacac caagcaaaaa atgttcaggc
caggattcgg attcttgaat tactcgaagc ctctctggg aagaaaggga attctgaca
agcacaatc catatgggat gtaacttta tcacaaatca aatagtgaca tcacaaatc
aatgtcctct ttgcaaat tgtgcataga tatatatatg cccacacaca ctgggcoatg
cttgggcaagg aacagaccac gtggcatcca gtggatcat gatttcacct gatgcattcg

gagtgaactg gtggagccag acagagcagg tgccggggaag ggaaggcca ggccagacc
 atcccaacg gatgatgga tgatggaca gcagttcctt gtcagaagc ccttcctccc
 gctgggctga cagactctc atcttcagga gactcaggaa tggagcggta caggggtctc
 tcttcaccca ccgcaaccca tccagtgcca gctttgagat tgcacttgaa gaaaggtgca
 tggacccctt gctgctctgc agattccctt tatttaggaa aacaggaata agacaaaat
 tatcaccaaa aagtgcctca tcaggcgtgc tacaggagga aggagctaga aatagaacaa
 tccatcagca tgagactttg aaaaaaaa cacatgatca gcttctcatg ttccatatc
 acctattggc gatttgggga aaaggccgga acaagagatt gttacgagag tggcagaaaac
 cctttttag attgacttgg gtttggcca agcgggcttt ccattgacct tcagttaaag
 aacaaacct gtgacaaaat tgttacctc cacttactgt agcaataat acctacaagt
 tgaacttcta agatgcgtat atgtacaatt tgggtgcatt atttctcta cgtattagag
 aaacaaatcc atctttgaat ctaatggtgt actcatagca acttactg gtttaaatga
 caataaatc tatcctattg tcaactgaagt cctgttaact agcagtgaa tgtgttctcg
 tgtccttga tatgtgcgat cgtaaaaatt gtgcaatgta atgtcaaat gacctgtcaa
 tgtcaaccta gtagtcaatc taactgcaat tagaaattgt cttttgaata tactatatat
 attttttatg ttccaataat gttttatata tcatgtcat caatatctac agaagctctt
 tgacgggttg aatactatgg ctcaagggtt tcatatgcag ctgggatgga cattttctt
 ctaagatgga acttattttt cagatatatt ctgatgtgga gatattgtat taatgaagtg
 gtttgaatat ttttatattt aagatgtcac aaaaactgag agtgaaaaata aaaggtacat
 tttataagct tgcacacatt attaacacat aagattgaac aaagcattta gattattcca
 ggttatatca tttttttaa gattttccac agctacttga gtgtctaaca tacagtaaca
 tctaactcag ctaataattt gtaaaatctt tatcaatcac attgtggcct cttttaattt
 ttatgttcat ggacttttat tctgtgtct tggctgtcat aactttttat tctgtctatt
 tgcgtgtgtg taatatccat ggacatgtaa tccacttact ccactctttac aatccctttt
 taccaccaat aaaaggattt tttctgtgtg ttttgatttc tctattatt tgtggaatga
 attatacccc ccttaaatat ctttgtttat gccttatgtt cagtcattat ttaatatgct
 tccttcatat tgaagctgct gatttctcag ccaaaaatca tcttagaatc tttaaatc
 cattgatca tttgttcaga atttaacatc cattccaatg ttggaggctt gtattactta
 tatttcatca tattctattg ccaagtttag tcagttccac accaagaatg aactgcattt
 cctttaaaaa ttatttttaa acacctttat tgaaagatc tcatgactga gatgtggact
 ttggttccat gttttcattg taagaaagca gagagcgaa aatcaaatggc tccagtgatt
 aatagatggg tttttagtaa ttgacaaatt catgagggaa agcatatgat ccttttatta
 gtgaatcatg cttatttttt actcttaacg ccactaatat acatccctaa tatcacaggg
 ctgtgcatc cagattttta aaaaattagg atagataagg aaaaactta tattcaagt
 taagatgata tcagggttgg ctgaagcttt tgggtgaacac gttcattcaa ctgtgatcac
 tttattactc tgaatgccta ctattatcct gattatgggg tctctgaat aaatagatga
 ttagtcttta tgtcatcatt gttcaaaatt ggagatgtac acatacatc cctataccaa
 gagggccgaa actcttcacc ttgatgtatg ttctgataca agttgttcag cttcttgtaa
 atgtgttttc cttoggcttg ttactgcctt ttgtcaata atcttgacaa tgctgtataa
 taaatattt ctattatt

Glutamate Receptor 1	3094	Metabotropic NM_000839	171																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
-------------------------	------	------------------------	-----	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--

171 3094 Metabotropic NM_000839

Glutamate
Receptor 2

172	3094	Metabotropic Glutamate Receptor 2	NP_000830.1	<p>aggctccgctt tgaccgcttt ggtgatggta ttggccgcta caacatcttc acctatctgc</p> <p>gtgcaggcag tggcgcttat cgctaccaga aggtgggta ctgggcagaa ggttgactc</p> <p>tggacaccag cctcatocca tgggcctcac cgtcagccgg cccctggcc gctctcgtc</p> <p>gcagtggcc ctgcctcag aatgaggtga agagtgtga gccggcgaa gtctgctgt</p> <p>ggctctgcat tccgtgocag accatgagt accgatgga cgaattcact tgcgctgatt</p> <p>gtggcctggg gggcgatgcc aatgccagcc tgactggctg cctcgaactg cccaggagt</p> <p>acatccgctg gggcgatgcc tgggctgtgg gacctgtcac catcgctgc ctgggtgcc</p> <p>tggccacctt gtttgtgctg ggtgtctttg tggcgcaaa tggcaccca gtggtcaagg</p> <p>ctcaggctg ggagctctgc tacatcctgc tgggtgtgtt ctctctctg tactgcatga</p> <p>ccttcattt cattgcaag ccatccacgg cagtgtgtac cttaacggctt ctgtgtttg</p> <p>gcactgctt ctctgtctgc tactcagccc tgctaccaa gaccaaccg attgcacga</p> <p>tcttcggtgg ggcgcgggag ggtgccagc ggcacgctt cateagtcct gctcacagg</p> <p>tggccatctg cctggcactt atctcggcc agctgtcat cgtgtcgcct tggctgtgg</p> <p>tggaggcacc gggcacaggc aaggagacag cccccgaag cgggaggtg gtgacactgc</p> <p>gctgcaacca ccgcgatgca agtatgttg gctcgtcggc ctacaatgtg ctctcctcg</p> <p>cgtctgcac cgttatgcc tcaatactc gcaagtgcc cgaacctc aacgaggcca</p> <p>agttcattgg cttcaccatg tacaccacct gcatacttg gctggcattg ttgccatct</p> <p>tctatgtcac ctcagtgac tacgggtac agaccacac catgtgcgtg tcagtcagcc</p> <p>tcagcggctc cgtgtgtcctt ggtgcctct ttgcccacaa cgtgcacatc atctcttcc</p> <p>agccgcagaa gaagtgtgtt agccacggg caccacacag ccgctttggc agtgcgtctg</p> <p>ccagggccag ctcagcctt ggcacagggt ctggtcccca gttgtcccc actgtttgca</p> <p>atggccgtga ggtgtgtgac tgcacacgt catcgctttg a</p> <p>MGSLALLAL LPLWGAAG PAKKVLTEG DLVLGGFLFPV HQKGPAEDC GPVNEHRG IQ P</p> <p>RLEAMLFALD RINRDPHLLP GVRLLGAHLD SCSKDPHALE QALDFVRASL SRGADGSRHI</p> <p>CPDGSYATHG DAPTAITGVI GGSYSDVSIQ VANLLRLFOI PQISYASTSA KLSDKSRYDY</p> <p>FARTVPDFF QAKAMAEILR FENWTYVSTE ASEGDXETG IEAFELEARA RNICVATSEK</p> <p>VGRAMSRAAF EGVVRALLQK PSARVAVLFT RSEDARELLA ASQRLNASFT WVASDGMGAL</p> <p>ESVWAGSEGA AEGAITIELA SYPISDFASY FQSLDPWNS RNPFREFWE QRFRCSFROR</p> <p>DCAHSLRAV PFEQESKIME VVNAVYAMAH ALHMHRAIC PNTRLCDAM RPVNGRRLLYK</p> <p>DFVLNVKFDA PFRPADTHNE VRFDREFDGI GRYNIFTYLR AGSGRYRYQK VGYWAEGLTL</p> <p>DTSLIPWASP SAGPLAASRC SEPCLQNEVK SVQPGEVCCW LCIPCQPYEY RLDEFTCADC</p> <p>GLGYWPNASL TGCFELPQEY IRWGDWAVG PVTIACLGAL ATFLVLGVFV RHNATPVVKA</p> <p>SGRELVCYLL GGVFLCYCMT FIFIAPKSTA VCTLRLGLG TAFSVCYSL LTKTNRIARI</p> <p>FGGAREGAQR PRFISPASQV AICLALISGQ LLIVAVLWV EAPGTGKETA PERREVTVLR</p> <p>CNHRDASMLG SLAYNVLLIA LCTLYAFNTR KCPENFNEAK FIFTMYTTC IWLALLPIF</p> <p>YVTSSDYRVQ TTMCVSVSL SGSVVLGCLF APKLHILFQ POKNVVSHRA PTSRFGSAAA</p> <p>RASSLSGQGS GSQFVPTVCN GREVVDSTTS SL</p>	Homo sapiens
173	3095	Metabotropic Glutamate Receptor 3	NM_000840	<p>cttttgtgtc ggatgaggag gaccacacct gagccagagc ccgggtgcag gctcacccgc A</p> <p>gccgctgcca ccgctgtcag cttccagctcc tgcaggagt tgcgtgtgc aggaattttg</p> <p>tgacaggctc tgttagctg ttcctccctt attgaagga caggccaaa atccagtttg</p> <p>gaaatgagag aggactagca tgacacattg gctccacct tgatatctcc cagaggtaca</p>	Homo sapiens

gaaacaggat tcatgaagat gttgacaaga ctgaagttc ttaccttagc ttgttttca
aagggatatt tactctcttt aggggaccat aactttctaa ggagagagat taaaatagaa
ggtgaccttg ttttaggggg cctgtttcct attaacgaaa aaggcactgg aactgaagaa
tgtggcgcaa tcaatgaaga ccgagggatt caagcctgg aagccatgtt gtttgctatt
gatgaaatca acaagatga ttacttgcta ccaggagtgga agttgggtgt tcacattttg
gatacatgtt caaggatac ctatgcatg gagcaatcac tggagtgtgt cagggcatct
ttgacaaaag tggatgaagc tgagtatatg tgtcctgatg gatcctatgc cattcaagaa
aacatcccac ttctcattgc aggggtcatt ggtggctctt atagcagtgt ttccatacag
gtggcaaac ttgtcgggt ctccagatc cctcagatca gctacgcac caccagcgcc
aaactcagt ataagtgcg ctatgattac ttggccagg cctgcccc cgactttac
caggccaaag ccattgctga gatctgcgc ttcttcaact ggacctact gtccacagta
gcctccgagg gtgattacgg ggagacagg atcgaggcct tggagcagga agccgcctg
cgcaacatct gcatcgctac ggcggagaag gtgggccgt ccaacatccg caagtccctac
gacagcgtga tccgagaact gttgcagaag cccaacgcg gcgtcgtggt cctcttcag
cgcagcgacg actgcgggga gctcattgca gcgcgcagc gcgccaatgc ctccttcacc
tggttgccca gcagcgctg ggcgcgcag gagagcatca tcaagggcag cgagcatgtg
gctacggcg ccataccct ggagctggcc tccagcctg tccgcagtt cgaccgtac
ttccagagcc tcaaccctca caacaaccac cgcaacccct gttccggga cttctggag
caaaagtctc agtgcagcct ccagaacaaa cgcaaccaca ggcgctctg cgacaagcac
ctggccatcg acagcagcaa ctacgagcaa gagtccaaga tcatgtttgt ggtgaacgcy
gtgtatgcca tggccacgc ttgcacaaa atgcagcga cctctgtcc caactacc
aagctttgt atgctatgaa gatcctggat gggagaagt tgtacaagga ttacttgctg
aaaaatcaact tcacggctcc attcaaccca aataaagatg cagatagcat agtcaagtct
gacacttttg gagatggaat gggcgctac aactgttca atttccaaaa ttagagtgga
aagtattcct acttgaagt tggctactgg gcagaaacct tatogetaga tgtcaactct
atccactggt ccggaactc agtcccccact tccagtga gcgccccctg tgcccccaat
gaaatgaaga atatgcaacc aggggatgtc tgcgtctgga ttgcatccc ctgtgaaccc
tacgaatacc tggctgatga gtttacctgt atggattgtg ggtctggaca ttggcccact
gcagacctaa ctggatgcta tgaccttctc gagactaca tcaggtggga agacgcctgg
gccattggcc cagtcccat tgcctgtctg ggttttatgt gtacatgcac ggttgtaact
gtttttatca agcaacaaa cacaccttg gtcaagcat cgggcgaga actctgctac
atcttattgt ttggggttg cctgtcacc cctgtcacc tcttctcat tgccaaagca
tcaccagtca tctgtgcatt gcgcgactc gggctgggga gttccttcgc tatctgttac
tcagccctgc tgaccaagac aaactgcatt gccgcactc tcgatgggg caagaatggc
gctcagaggc caaatctcat cagccccagt tctcaggttt tcactgcct gggctctgac
ctggtgcaaa ttgtgatggt gtctgtgtg ctcactctgg agggcccagg caccaggagg
tatacccttg cagagaagcg ggaacagtc atcctaaaat gcaatgtcaa agattccagc
atgttgatct ctcttaccta cgatgtgac ctggtgatct tatgcactgt gtacgccttc
aaaacggga agtgcccca aaatttcaac gaagctaatg tcataggttt taccatgtac
accacgtgca tcatctggtt ggccttcctc cctatattt atgtgacac aagtgactac
agagtgcaga cgacaaccat gtcatctct gtgacctga gtggctttgt ggtcttgggc

174	3095	Metabotropic NP_000831.1 Glutamate Receptor 3	<p> tggttggttg caccacaggt tcacatcatc ctgtttcaac ccagagaaga tgtgtcaca cacagactgc acctcaacag gttcagtgct agtgaactg ggaccacata ctctcagtc tctgcaagca cgtatgtgcc aacggtgtgc aatgggaggg aagtccctga ctccaccac tcattctgt gatttggaat tgcagttcag ttcttggtt tttagactgt tagacaaaag tgtcaccgtg cagctccaga atattgaaac agagcaaaag aacaacccta gtacctttt ttagaacacg tacgataaat tatttttag gactgtatat agtgaatgag tagaactttc taggtgagt ctagtgtccc tattattaac aattcccca gaacatggaa ataaccattg ttacagagc tgagcattgg tgacagggtc tgacatgtgc agtctactaa aaaaacaaa aaaaaaca aaaaaaaa acaaaagaa aataaaaaa tacggtggca atattatga acctttttc ctatgaagtt tttgtaggt cttgttgta actaattag gatgagttc tatgttgat attaaagtta cattatgtg acagattga tttctcagc aaaaaataa aagcatctgt attaatgtaa agatactgag aataaaacct tcaaggtttt MLTRLQVLT ALFSKGFLLS LGDHNFLRRE IKTEGLVLG GLFPINEKGT GTEECGRINE P DRGIQRLEAM LFAIDEINKD DYLLPGVKLG VHILDTCSR TYALEQSLEF VRASLTKVDE AEYMCPPDSY AIQENIPLI AGVIGGSYSS VSIQVANLLR LFIQIPQISA STSAKLSDKS RYDYFARTVP PDFYQAKAMA EILRFNWTY VSTVASEGDY GETGIEAFEQ EARLNRICIA TAEKVGRSNI RKSYSVIRE LLQKNARV VLFMRSDSR ELIAASRAN ASFTWVASDG WGAQESIIG SEHVAYGALT LELASQPVQ FDRYFQSLN YNNHRNPWR DFWEQKQCS LQKNRHRV CDKHLAIDSS NYEQESKIME PFNPKDADS IVKFDTFGD MGRYNVNFQ NVGGKYSYLK KILDGKKLYK DYLLKINFTA DVNSIHWARN SVPTSQSDP CAPNEMKMNQ PGDVCCWICI PCEPYEYLAD VGHWAETLSL DVNSIHWARN SVPTSQSDP CAPNEMKMNQ PGDVCCWICI PCEPYEYLAD EFTCMDGSG QWPTADLTGC YDLPEDYIRW EDAWAIGPVT IACLGFMCTC MVTVFIKHN NPLVKASGR ELCYILLFGV GLSYCMTFFF IAKPSVICA LRRGLGSSF AICYSALLTK TNCIARIFDG VKNGAQRPKF ISPSQVFC LGILLVQIVM VSWLILEAP GTRRYTLAEK RETVLKCNV KDSSMLISLT YDVIILVILCT VYAFKTRKCP ENFNEAKFIG FTMVTTCTIHW LAFLPIFYVT SSDYRVQTTT MCISVLSLGF VVLGCLFAPK VHILFQPK NVVTHRLHN RFSVSGTGT YSQSSASTV PTVNCGREVL DSTSSL ccgagtaca agagggtgg agagggtag agcatgggt acgcggttg cgtccctcag A tccccctgct gctgaagctg cctgcccac gccaccccag gccgtggggc caggggcctg ccagggtcag gagtggcctt gccgttcctg ggtctctagg gattccgag atgcttgga agagaggctt gggctggtg tgggcccgc tggcccttg cctgctctc agcctttacg gcccctgat gccttctcc ctgggaaagc ccaaaagcca cctccatag aattccatcc gcatagatgg gacatcaca ctgggaggcc tgttcccggt gcatggccgg ggtcagaggg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt tcgcccctga tcgcatcaac aacgaccgg acctgctgc taacatcacg ctgggcgccc gcattctgga cactgctcc agggacacc atgcccctga gcagtgcctg accttctgc aggcgtcat cagaaagat ggacagagg tccgtgtgg cagtggggc ccaccatca tcaccaagcc tgaacgtgtg ttgggtgtca tgggtgttc agggagctcg gctccatca tggtggccaa catccttcgc ctcttcaaga taccacagc cagctacgccc tccacagcgc cagacctgag tgacaacag cgtacgact tcttctccc cgtgtgtccc tcggacacgt accaggccca ggccatggtg gacatcgtcc gtgcccctca gtggaactat gtgtccacag </p>	Homo sapiens
175	3096	Metabotropic NM_000841 Glutamate Receptor 4	<p> ccgagtaca agagggtgg agagggtag agcatgggt acgcggttg cgtccctcag A tccccctgct gctgaagctg cctgcccac gccaccccag gccgtggggc caggggcctg ccagggtcag gagtggcctt gccgttcctg ggtctctagg gattccgag atgcttgga agagaggctt gggctggtg tgggcccgc tggcccttg cctgctctc agcctttacg gcccctgat gccttctcc ctgggaaagc ccaaaagcca cctccatag aattccatcc gcatagatgg gacatcaca ctgggaggcc tgttcccggt gcatggccgg ggtcagaggg gcaagccctg tggagaactt aagaaggaaa agggcatcca ccggtggag gccatgctgt tcgcccctga tcgcatcaac aacgaccgg acctgctgc taacatcacg ctgggcgccc gcattctgga cactgctcc agggacacc atgcccctga gcagtgcctg accttctgc aggcgtcat cagaaagat ggacagagg tccgtgtgg cagtggggc ccaccatca tcaccaagcc tgaacgtgtg ttgggtgtca tgggtgttc agggagctcg gctccatca tggtggccaa catccttcgc ctcttcaaga taccacagc cagctacgccc tccacagcgc cagacctgag tgacaacag cgtacgact tcttctccc cgtgtgtccc tcggacacgt accaggccca ggccatggtg gacatcgtcc gtgcccctca gtggaactat gtgtccacag </p>	Homo sapiens

tggcctcggg ggcagctat ggtgagagcg gtgtggaggc cttcatccag aagtcctgtg
aggacggggg cgtgtgcatc gccagtcgg tgaagatacc acgggagccc aaggcaggcg
agtcgacaa gatactccg cgcctcctgg agacttcgaa cgcaggggca gtcatcatct
ttgccaaag ggtgacatc aggcgtgtgc tggaggcagc acgaagggcc aaccagacag
gccatttctt ctggtgggg tctgacagct ggggtcccaa gattgcacct gtgctgcacc
tggaggagggt ggtgagggt gctgtcacga tccctcccaa gaggatgtcc gtacgaggt
tcgaccgcta cttctccagc cgcacgtgg caacaacatc gcgaacatc tggtttgccg
agttctggga ggacaacttc cactgcaagc tgagccgcca cgcctcaag aaggcagcc
acgtcaagaa gtgcaccaac cgtgagcgaa ttggggcagga ttacgttat gagcaggag
ggaagggtgca gtttgtgac gatgccgtgt acgccatggg ccacgcgctg cagccatgc
accgtgacct gtgtcccgcc cgcgtggggc tctgcccgcg catggacctt gtagatggca
cccagctgct taagtacatc cgaacgtca acttctcagg catcgacgg aacctgtga
ccttcaatga gaatggagat ggcctgggc gctatgacat ctaccaatc cagctgcgca
acgattctgc cgaatcaag gtcatgggt cctggactga ccactgcac cttagaatag
agcgatgca ctggccggg agcgggcagc agtgcctccg ctccatctgc agcctgcct
gccaaacggg tgagcggaag aagacagtga agggcatgcc ttgctgtgg cactgcgagc
cttgacacag gtaccagtlac caggtgacc gctacacccc gctacatgtt cctatgaca
tgccggccac agagaaccgc acgggctgcc gcccactcc catcatcaag cttgagtggg
gctgccttg ggcgtgtct cccctcttcc tggcctgtgt gggcatcgct gccagttgt
tcgtgtgtat cacctttgt cgtacaaag acacgccat cgtcaaggcc tcgggcctgt
aactgagcta cgtgtgtctg gcaggcatct tccgtgtcta tggcaccacc ttcctcatga
tcgctgagcc cgacctggc acctgtctgc tgcgcgaat ctctctggga ctagggatga
gcatacagta tgcagccctg ctacccaaga ccaacgcct catccgcac ttcgagcagg
gcaagcgctc ggtcagtgcc ccacgcttca tcagccccc ctcacagctg gccatcacct
tcagcctcat ctcgtgtcag ctgctgggca tctgtgtgtg gtttgtgtg gacccctccc
actcgggtgt ggaactccag gaccagcgga cactcgacc cgccttcgcc aggggtgtgc
tcaagtgtga catctcgac ctgtcgctca tctgctgtct gggctacagc atgtgtctca
tggtcacgtg caccgtgtat gccatcaaga cgcgcggcgt gcccgagacc ttcaatgagg
ccaagcccat tggcttcacc atgtacacca cttgcctcgt cttgctggcc ttcatccca
tcttctttgg cactctcgag tcggccgaca agctgtacat ccagacgac acgtgacgg
tctcgggtgag tctgagcgcc tcggtgtccc tgggaatgct ctacatgcc aaagtctaca
tcatactctt ccacccggag cagaacgtgc ccaagcgcaa gcgcagcctc aaagcgtcg
ttacggcgcc caccatgtcc acaagtcca cgcagaagg caacttcgg cccaacggag
aggccaagtc tgagctctgc gagaaccttg aggccccagc gctggccacc aaacagactt
acgtcaacta caccaacct gcaatctagc gagtccatgg agctgagcag caggagagg
agccgtgacc ctgtggaagg tgcgtcgggc cagggccaca cccaagggcc cagctgtctt
gectgcccgt gggcaccac ggacgtggct tgggtctgag gatagcagag cccccacca
tcaactgtgg cagcctggc aaacggggtg agcaacagga ggacgagggg ccggggcggt
gccaggctac cacaagaacc tgcgtcttgg accattggcc ctcccggccc caaacacag
gggtcaggt cgtgtgggccc ccagtctag atctctccct cctctcgtct ctgtctgtgc
tgttggcgac cctctgtct gtctccagcc ctgtctttct ctctctttt

176	3096	Metabotropic NP_000832.1 Glutamate Receptor 4	<p>caccttttcc ctctctggcg tccccggctg cttgtactct tggccttttc tgtgtctcct tcttgctct tgcctccgc tctctctctc atcctctttg tctcagctc ctcttgctt cttggtccc accagtgtca cttttctgce gttttcttcc ctgttctcct ctgcttcatt ctcgtccagc cattgtctcc ctctccctgc caccctccc cagttcacca aaccttacct gttgcaaaag agaaaaaag aaaaaaatc aaaaacaaa aaagccaaaa cgaacaaaa tctcagtggt gttgccaagt gctgctcct cctggtggcc tctgtgtgtg tccctgtggc ccgcagcctg ccgcctctgc ccgcccactt ggcgtgtgtc ttgcccgcct gccccgcog tctgcgtct gtcttgccc cctgcctccc cctgcctccc ggcgaccaca cggagttcag tgctgggtg tttggtgat gttattgacg acaatgtga gcgcatgatt gttttatcac caagaacatt tctaataaaa ataaacacat ggttttgcaa aaaa</p> <p>MPGKRLGWW WARPCLLL SLYGPMFSS LGKPKGHPHM NSIRIDGIT LGGLFPVHGR P GSEKPCGEL KKEKGIHRL AMLEALDRIN NDPDLLNIT LGARILDTC RDTHALEQSL TFVQALIEKD GTEVRCGSGG PPIITKPERV VGVIGASGSS VSIMVANILR LFKIPQISYA STAPDLSDNS RYDFSRVVP SDTYQAQAMV DIVRALKWNV VSTVASEGSY GESGVEAFIQ KSREDGGVCI AOSVKIPREP KAGEFDKIIR RLLETSNARA VIIFANEDDI RRVLEAARRA NQTGHFFWVG SDSWGSKIAP VHLLEVAEG AVTILPKRMS VRGFDRYFSS RTLDNNRRNI WFAEFWEDNF HCKLSRHALK KGSHVKKCTN RERIGQDSAY EQEGKVQFVI DAVYAMGHAL HAMHRDLCPG RVGLCPRMDP VDGTLQLLKYI RRVNFSGIAG NPVTFNENGD AGRYDIYQY QLRNDSAEYK VIGSWTDHLH LRIERMHWPG SQQLPRISC SLPCQGERK KTVKGMPCW HCEPCTGYQY QVDRYTCKT PYDMRPTENR TGCRIPIIK LEWGSWAVL PLFLAVVGIA ATLFVITFV RYNDTPIVKA SGRELSYVLL AGIFLCYATT FLMAEPDLG TCSLRRIFLG LGMSISYAAL LTKNRIYRI FEQKRSVSA PRFISPASQL AITFSLISLQ LLGICVWFV DPHSVVDVDFQ DQRTLDPRFA RGVLKCDISD LSLICLLGYS MLLMVTCTVY AIKTRGVPET FNEAKPIGFT MYTTCIVWLA FIPIFFGTSQ SADKLYIQTT TLTVSVLSA SVSLGMLYMP KVYIILFHE QNVPKRKRSL KAVVTAATMS NKFTQKGNFR PNGEAKSELC ENLEAPALAT KQTYVTYNH AI</p>	Homo sapiens
177	3097	Metabotropic NM_000842 Glutamate Receptor 5	<p>acaaaatggt cctttagaaa atacatctga attgctggct aatttcttga tttgcgactc A aacgtaggac atcgcttggt cgtagctatc agaacctcc tgaattttcc ccaccatgct atctttattg gcttgaactc ctttccctaaa atggtccttc tgttgatcct gtcagttcta cttttgaaaag aagatgtccg tgggagtgca cagtcacagt agaggagggg ggtggctcac atgccegggtg acatcattat tggagctctc ttttctgttc atcaccagcc tactgtggac aaagtctatg agaggaaagt tggggcggtc cgtgaacagt atggcattca gagagtggag gccatgctgc ataccctga aaggatcaat tcagacccca cactcttgcc caacataca ctgggctgtg agataaggga ctctgctgg cattcggtg tggccctaga gcagagcatt gagttcataa gagattccct catttcttca gaagaggaaag aaggcttggg acgctgtgtg gatggctcct cctcttccct ccgctccaag aagcccatag taggggtcat tgggctggc tccagttctg tagccattca ggtccagat ttgtccagc ttttcaaat acctcagatt gcttactcag caaccagcat ggatctgagt gacagactc tgttcaata tttcatgagg gttgtcctt cagatgtctca gcaggcaagg gccatggtg acatagttaa gaggtacac tggacctatg tatcagcctg gcacacagaa ggcaactatg gagaaagtgg gatggaagcc ttcaaaagata tgtcagcgaa ggaagggaatt tgcctgccc actcttaca aatctacagt</p>	Homo sapiens

aatgcagggg agcagagcct tgataagctg ctgaagaagc tcacaagtca cttgcccag
gcccgggtgg tggcctgctt ctgtgagggc atgacggta gagtctgct gatggccatg
aggcgcctgg gtctagcggg agaatttctg cttctgggca gtgatggctg ggctgacagg
tatgatgtga cagatggata tcagcgagaa gctgttggtg gcatacaat caagctccaa
tctccgatg tcaagtgggt tgatgattat tatctgaagc tcgggccaga acaaacccac
cgaaccctt ggtttcaaga attttggcag catcgttttc agtgcgcact ggaagggttt
ccacaggaga acagcaata caacaagact tgcaatagt tctgactct gaaacacat
catgttcagg attccaaaat gggatttctg atcaacgcca tctattcgt ggcctatggg
ctccacaaca tgcagatgtc cctctgccc cgtatgcag gactctgtga tgccatgaag
ccaattgatg gacggaaact tttggagtcc ctgatgaaa ccaattttac tggggtttct
ggagatacga tctattcga tgagaatgga gactctccag gaaggtatga aataatgaat
ttcaaggaaa tgggaaaaa ttactttgat tatatcaacg ttggaagtgg ggacaatgga
gaattaaaaa tggatgatga tgaagtatgg tccaagaaaa gcaacatcat cagatctgtg
tgcagtgaac catgtgagaa aggccagatc aggtgatcc gaaagggaga agtcagctgt
tgttggaacct gtacaccttg taaggagaat gagtatgtct ttgatgagta cacatgcaag
gcatgccaac tggggtcttg gccactgat gatctcacg gttgtgactt gatcccagta
cagtatcttc gatggggtga cctgaaacc attcagctt tgggtgttgc ctgcttgcc
ctcctggcca cctgtttgt tactgtatgc tteatcatt accgtgatac accagtagtc
aagtctcaa gcagggaact ctgtacatt atccttgctg gcacttgcct gggctactta
tgtaccttct gactcattgc gaagccaaa cagatttact gctaccttca gagaattggc
attgtctct cccagccat gagctactca gcccttgtaa caagaccaa ccgtaattgca
aggatcctgg ctggcagcaa gaagaagatc tgtaccaaa agccagatt catgagtgcc
tgtgccagc tagtgattgc ttcatcttc atatgcacc agttgggcat catcgttgc
ctcttataa tggagcctcc tgacataatg catgactacc caagcattcg agaagctac
ctgatctgta acaccacca cctaggagt ttgcctcaag accagaaatg ttccagctaa cttcaacgag
atcttgagct gcaccttcta atgtacacg acctgcatta tatggctagc tttgtgcca
gccaagtata tgccttcaac caaatcacc aatgtggtt tctcgtcag cctcagtgc
atctactttg gcagcaacta gtttgtccg aaggtgtaca tcatcctggc caaacagag
acagtggccc taggtgcat gtttgtccg accgtgtgc gcctcctggc caaacagag
agaaacgtgc gcagggcctt caccacatct accgtgtgc gcctcctggc caaacagag
aagtcactct ccgcagccag cagatccagc agctagtca acctgtgaa gagaaggggc
tctctgggg aaaccttaag ttccaatgga aaatccgtca cgtgggccc gaatgagaa
agcagccggg ggcagacct gtggcagcgc ctgtccatcc acatcaaca gaaagaaaac
cccaaccaa cggccgtcat caagcccttc ccaagagca cggagagccg tggcctgggc
gttgccgtg gcgcaggcgg gagecgtggg ggcgtgggg ccacgggctg tgcgggctgc
gcaggccgg gccaggcgg gccagatcc ccagacgcg gcccaaggc gctgtatgat
gtggccgag ctgaggagca cttccggcg ccgcggcg cgcgtcacc gtgcacctc
agcacgtga gccaccgc gggctcggc agccgacg acgacatgt gccgtcgtg
cactcggagc ctgtggcg cagcagctcc tcgcaaggct cctcatgga gcagatcagc
agtgtgtgta cccgcttcc ggccaacatc agcagctca actccatgat gctgtccacc
gcggcccca gcccgcggt cggcgccccg tctgtcgtg cctacctgat ccccaagag

178	3097	Metabotropic NP_000833.1 Glutamate Receptor 5	atccagttgc ccacgacccat gacgaccttt gccgaatatcc agcctctgcc ggccatcgaa gtcacgggag ggcgcagacc gcgcgagcgc gcgcgagcgc ctgggagcgc ggccccggag agccccggg ccggtccccg ggcgcgagcgc gccaagccag acctggagga gctggtggtc ctcacccgc cgtcccccct cagagactcg gtggactcgg ggagcacaac ccccaactcg ccagtgcgc agtcggccct ctglatcccg tgcgtccca aatatgacac tcttatcata agagattaca ctcaagctc ctgctgcttg tgaatgtccc tggaagcac gccggcctgc gcgtgcggag cggagccccc cgtgttcaca cacacacat gccgaagcgc gtcgcctggt tacggcccg ggggaatatg ccaagggacc ccttaattga aacacagatc agtagtgcta tctcatgaca accacaagaa accgacgaca aatcttttgc gagattttct tctagtggct tagaaacatg gcttttaaga aacacggtga tatctttgag ggtgacaagg cgtctcttca aacagttcca taccactgc ttgctctag ggaagcagtg cgtgtgaaac agcgtaacgg agggtgaaga gcatagttaa taagcaactg taaaagtgtt tatttgttta ctttaattct tttccctgt aaaaagtgtt atttgtttac ttttaattct tttccagaaa agagtctttg attcaccaaa catgaatgta cttttctaa caaactcaa atctgggacc aaacatcaa ctttttctt ttttttctt tttttttgt tttttcttc ctgtaaaagac cttgaaaaga ccttgaaaag cagtaacttg ggtccagtat ttaacgaggg gttgtgaatg tgtcccatgc ataacacact actgagatag gactgctgag ctaatgtact acgtagggct tctaccagag attttcctct ccaattgggt tgtgaaatac ttttccaaa gcctgcacg gggattccac ctacttattt cagattcacc tccatttaacc aagaaaaacca gtggaagatt tcttgactat ttccactgt tgccaatc	QSSERRVVAH MPGDIIIGAL FSVHHQPTVD KVHERKCGAV P SDPTLLPNIT LGCEIRDSCW HSAVALEQSI EFIRDSLSS KPIGVIGPG SSSVAIQVN LIQLFNIPQI AYSATSMDSL AMVDIVKRYN WTVYSAVHTE GNYGESGMEA FKMSAKEGI LKKLTSHLPK ARVACFCEG MTRGLLMAM RRLGLAGEFL AVGGITIKLQ SPDVKWFDDY YLKLRPETNH RNPWFQEFWQ CNSSLTLKTH HVQSKMGFV INAIYSMAY LHNMQMSLCP LMKTNFTGVS GDTILFDENG DSPGRYEIMN FKEMGKDYFD SKKSNIRSV CSEPECKQOI KVRKGEVSC CWTCTPCKEN DLTGCDLIPV QYLRWGDPEP IAAVVFACLG LLATLFVTVV ILAGICLGYL CTFLIAKPK QIYCYLQRIQ IGLSPAMSYS CAQLVIAFIL ICIQLGIIVA LFIMEPPDIM VTPLGYNLL ILSCTFYAFK TRNVPANFNE AKYIAFTMYT TMCFVSLSA TVALGCMFV KYIILAKE RNVRSAFTTS SLVNLKRRG SSGETLSSNG KSVTWAQNEK SSRGQHLWQR PKSTESRGLG AGAGAGGSAG GVGATGGAGC AGAGGGPES PARPRSPPI STLSHRAGSA SRTDDDVPSL HSEPVARS SELNSMMLST AAPSPGVGAP LCSSYLIPKE IQLPTTMTTF AQAAGDAARE SPAAGPEAAA AKPDLEELVA LTPSPFRDS SSPKYDTLII RDTQSSSSS	Homo sapiens
-----	------	---	---	--	--------------

cggaggcccc ggacggcccg ctgagctaac tcccagagc caaagtggaa ggcgcgcccc
 gagcgcttc tcccaggac cccggtgtcc ctccccgcg cccagagccc cgctctctt
 ccccgccct cagagcgctc cccgcccctc tgtctcccc cagcccgcctc gacgagccga
 tggcgccgccc cggagagcc cgggagccgc tgcctcccg gctgctgccc ctggcgtggc
 tggcgagggc ggccctggcg cgcgcggcg gctctgtgcg cctggcgggc ggcctgacgc
 tggcgccct gttcccggtg cagcgccggg cgcgctgta cgggctggc cgcgtcaacg
 agaagagaca gggcgtgcac cggctggagg ccatgctga cggctggac acctgctgc
 ccgaccccga gctgctgccc ggcgtgccc tggcgccgc gctgctgac cgcgcgcgcg
 gggacacctc cgcgctggag caggcgtga gctctgtga ggcgtgac cgcgcgcgcg
 ggcacggcga cggggtggc gtgcctgccc cgggagggc cctccgctg cgcgcgcgcg
 ccccgagcg cgtcgtggcc gtctgtggcg cctcgggcag ctccgtctcc atcatggtcg
 ccaacgtgct gcgcctgtt gcgatacccc agatcagcta tgcctccaca gcccggagc
 tcagcgactc cacacgctat gactctctt cccgggtggg gccaccgac tctaccagg
 cgcaggccat ggtggacatc gtgagggcac tgggatggaa ctatgtgtcc acgtggcct
 ccgaggggcaa ctatggcgaa agtggggttg aggccttcgt tcagatctcc cgagagctg
 ggggggtctg tattgcccag tctatcaga tcccaggga accaaagcca ggagagttca
 gcaaggtgat caggagactc atggagacgc ccaacgccc gggcatcatc atcttgcca
 atgaggatga catcaggcgg gtcttgagg cagctcgcca gggcaacctg accggccact
 tccgtgtgggt cggctcagac agctggggag ccaagacctc accatcttg agctggagg
 acgtggccgt tggggccatc accatctgc ccaaaagggc cctcatcgac gatttgacc
 agtacttcac gactcgatcc ctggagaaca accgcaggaa catctggttc gccagttct
 gggaagagaa ttttaactg aaactgacca gtccaggtac ccagtcagat gattccacc
 gcaaatgcac aggcgaggaa cgcctcgccc gggactccac ctacgagcag gaggcaagg
 tgcagttgt gattgatcg gtgtatgcca ttgccacgc cctccacag atgcaccagg
 cgtctgccc tgggcacaca ggcctgtgcc cggcgatgga accacccgat ggcgagatgc
 ttctgcagta cattcgagct gtccgcttca acggcagcg aggaacctt gtgatgtca
 acgagaaacg ggatgcgcc ggcggttacg accatcttca gtaccaggcg accaatggca
 gtgccagcag tggcggtac caggcagtg ggcagtggc agagacctc agactggatg
 tggaggccct gcagtgtct ggcgacccc acgagtgcc ctctctctg tgcagcctgc
 cctgcgggcc gggggagcgg aagaagatgg tgaaggcgct cccctgctgt tggcactgcg
 aggcctgtga cgggtaccg ttccaggtgg acgagttcac atgcgagccc tgcctgggg
 acatgagcc cagcccaac cacacgggct gcgccccac acctgtgtg cgcctgagct
 ggtcctccc ctgggcagcc cgcgctcc tctggccgt gctgggcatc gtggccacta
 ccacgggtgt ggcacacctc gtgcggtaca acaacagcc catcgtccgg gectggggcc
 gagagctcag ctacgtctc ctaccggca tcttctcat ctacgccat acctctca
 tgggtgtga gctggggcc cgggtctgt cgcgccgag gctctctctg ggcctgggca
 cgacctcag ctacttgcc ctgttcacca agaccaacg tatctaccg atctttgagc
 agggcaagcg ctcggtcaca cccctccct tcactagccc cactcacag ctggtcatca
 ccttcagcct cactccctg caggtgtgtg ggatgatagc atggtgggg gcccgcccc
 cacacagct gattgactat gaggaacagc cccagagtgga ccccgagcag gccagagggg
 tgctcaagtg cgacatgtcg gatctgtctc tcctgggctc cctggggtac agctcctgc

tcatgggtcac gtgcacagtg tacgccatca aggcccggtgg cgtgcccgag accttcaacg
aggccaaagcc catcggcttc accatgtaca ccacctgcat catctggctg gcattcgtgc
ccatcttctt tggcactgcc cagtcagctg aaaagatota catccagaca accacgctaa
ccgtgtcctt gagcctgagt gcctcggtgt ccctcggeat gctctacgta cccaaaaacct
acgtcactct ctccatcca gagcagaatg tgcagaagcg aaagcggagc ctcaaggcca
cctccacggt gccagcccca cccaaaggcg aggatgcaga ggcacacaag tagcaggcca
ggtgggaacg ggactgcttg ctgcctctcc ttcttctctc ttgctcag gtggaagctg
tatagagccc gggtcacag tgaacagtca gtggcagga gttgccaag accatgctcc
gcgtcgggtg ggctggcctt gagaaggaaac tggaccacg tctaccccga ttccagcatg
tgagcttcac gcttcctcac cacagaccag actcgtctcc catgtgtgga aacagccacc
gagaaggctc tagctctaga aagggaactaa acttattctc tcatccgaag tocaaaagag
atgatgaagc cctgggcttt gcctggtttg cgggagattt cctcccctca gtcaaccccc
ataacctggg gattgggcag tgtggaagaa cgtgtagacc ccagaatgaa acatggggtt
ggagtggagg aggagctgtc tcagcaagag gagacctggg gctgtgcac tggatggagg
cactcaggcc tgggtaggat tcctctggca cggagggaga gacctgggt gagacccctg
tgacatggg aaggccctgc agtgggcgcg ggagtgcgt gaggaactgg ggtgcgcccc
catgagattc ccaatgccat gggctttccc ccactccctt ggtattggc aaggtcagac
ttagagtaca gctgttttcc tcccctctgt gtactccctt aaatcacccc aacctggcc
aggcatgggt gctcacacct gtaatccag cactttgga gcccagagga ggtggatcac
ctgaggtccg gacttcgaga ccagcctggc caatgtggtg aaacctgtc tctactaaaa
atacaaaaat tagccaggtg tgatggtggg tgcctgtaat ccagttact tgggaggtcg
aggcaggaga atcgcttgaa cctgggaggt ggaggtgca gtgagctgtg attgtgccac
tgtactccag cctgggtgac agagcgagac tctgtctcaa aaaaaaaca caaaaaaca
ccaaaaaac cccaaacct gaagaaattc agatacacgt gtgtaatgtt agtgcgtga
gaacaaggag cagggtgca tttgtgtgt gttcgggttg gggatgggt taggagctcc
aggttgggag cagtacaga gactcatggc cgtggtgagg gtgaatccca agtggatggc
tcaggacggg tatgaaaacc ctctatcct cataggtact gggaagtcca ttgcaagct
gagcgcagg cctggggagg aagaggcttg ggtgcagat gcacgcacat ttgttttca
ctgatatgtt ttacaaaaag ctltggttaa gttatggaat ttatgtccc tgggagtga
attacattt gttaaattga ccactgtta agatcagtat acattctcta gctgtgatg
tctggagcta gttttgagg tgaaccacac ttatcccaac atacaaact tcccatgcag
cttctctggt gcgagtttg ttttgacctt gggactaggt gcttctgcag gttttaagta
attaacttaa aagcttctcc tctgagaaac atttctgttg cgctactgac tctcctctc
cacatttgtt gtgttcttag ggcttctcta tagtgacat taggacgttt cattgttgc
tgaatgcttt ccagaattat ttattocata gggtttctct cctgtgcagc tctctcatgg
gtaatggggc gtgttttctt gccaaaggcg gtccaccct cgtgattgta taggctctt
ctcctgtatg aactctgaga tcagtgcgt ctgatctcca agggaaagt ttctgcatt
tgctgtttc tcatgtctct ccagtgta atctctggc ttctagctga aaactttcc
acagttttac attcatgttg ttttctccac tgtgaactct gtgattcaga atcagaagca
gttcttagta gaggcatttc tacactgatt gcactgaga tatctccca gtgtgaagt
tctggcatag agtcctggt tcccgcagac gactttcaca ctctgcctg

180	3098	Metabotropic NP_000834.1 Glutamate Receptor 6	<p> tgggcctctc tggcaggaac tctgatgcac cgcgaggccc atgtactcct gtggctttct cacattcggt ctacttcgag ggtatctcca cagcatgcac cattctgggt acagggggac atcctctggt actgaagatg ttgtcatatt tagtaccttc acaaggtttc tctccttcca gaattttctg atgtacacaa ataaactgact tccacaagag ggctttttcca cactcgggtg gtgcatacag ttctgcctg tgatcatttc tttatgttat tattttattt ttctcgagata gggtcttgct caatttctta ggctggagtg cagtggcagc atcatagctc actgaagttt cgacctgggc tcaagcaatc ctccgccttc agctcctga gtactgggtg cgcacgacca taccagctta atgttttatt tttttagtag acgaggtctc actatgttgc ccaggctggt ctcgaacttc tgagctcgag cgatcctcct gcctccacct cccaaagtgt tcggattaca aacgtgagcc atgcaccta gcctctttga tcatctctgt gggtttcagt gggggttgac agctccctaa agatttctct gtttttttgc atgcattggt ttgaattctt tgaggttccaa tttatttga cccctgaata aagttttgtg gggtttcttc tatgtgtgga attatatagg cattctcca gtgtggttcc tcttatgtcg agtgagagct gacctgcacc gaagttttgc ccatttggtg ccttgaatt atctgtatga attatatgtt ccagtgaata tggagttctg ggttggaggg ttattccatg ttacacaaat taaaattgca gtgttctctc ctgggatgag agctctaaag cagagtaaga ttacgttctg atgtaagctt taaccaccta ttataaaggt ctcacctgtg gtccactgtg ttgagacttc tacagaagag cttctgtata gtaaccattt tcttaggctg tctcacttgt gtgaatcttc tgacacattt attatagctt tgtcccat cttatccttt ttgctcttta gaaatttccc tttaatattat tacattcatt gcttactgta aagagtccag gtaactgact ttaattcaag ttacttcttg ttaataaat ttaacttttc cc </p>	Homo sapiens
181.	3099	Metabotropic NM_000844 Glutamate Receptor 7	<p> MARPRAREP LIVALPLAW LAQAGLARAA GSVRLAGGLT LGGLFPVHAR GAAGRACGPL P KKEQGVHRL EAMLYALDRVN ADPELLPGVR LGARLDTCS RDTYALEQAL SFVQALIRGR GDGDEVGVRC PGVPPPLRPA PPERVAVVG ASASSVIMV ANVIRLFAIP QISYASTAPE LSDSTRYDF SRVPPDSYQ AQAMVDIVRA LGWNVYSTLA SEGNYGESGV EAFVQISREA GGVCIASIK IPREPKEGF SKVIRRLMET PNARGIIFA NEDDIRRVLE AARQANLTGH FLWVGSDSWG AKTSPILSLE DVAVGATIL PKRASIDGFD QYFMTSRLEN NRRNIWFAEF WEENFNCKLT SSGTQSDST RKCTGEERIG RDSIYEQEGK VQFVIDAVYA IAHALSHMHQ ALCPGHTGLC PAMEPTDGRM LLQYIRAVRF NGSAGTPVMF NENGDAAGRY DIFQYQATNG SASSGGYQAV GOWAETLRD VEALQWSGDP HEVPSLCSL PCGPGERKKM VKGVPCWVHC EACDGYRFQV DEFTCEACPG DMRPTNHTG CRPTPVVRLS WSSPWAAPPL LLAVLGIAT TTVVATFVRY NNTPIVRASG RELSYVLLTG IFLIYAITFL MVAEPGAAVC AARRLFGLG TTLSYSALLT KTNRIYRIFE QGKRSVTPPP FISFSLQV TFSLTSLQV GMIAWLGARP PHSVIDYEEQ RTVDPEQARG VLKCDMSDLS LIGCLGYSLL LMVCTVYAI KARGVPETFN EAKPIGFTMY TTCIIWLAFF PIFFGTAQSA EKIIQTITL TVSLSLASV SLGLYVPKT YVILFHEQN VQKRKRLKA TSTVAAPKPG EDAEAHK gaattcccaa caccaggta attttgtat ttttagtaga gattgggttt caccatgttg A gccaggatgg tctccatctc ttgacctcgg gatcctcctg gcttggcttc caaagtgtt ggcattacag gcattagatca ccatatccag ccaactgcag tcattcttat ggggcaaaaa cttggctgaa cccagggttt ctaaagatac aaacctatgg gcaacaccaa gcatttctaat ggaataggca cctggctgac tccaggcatt ctaataatag agacacctgg gcgaactcag </p>	Homo sapiens

acggtcgccc ctcccggat tccccaccc tccgtgctg caggagcccc tgggcttcc
cggaggagct cgccctgaag gcccggacc tcggcgagcc caccacgtt cctccagcg
ccgcccgcg caccgagca gcgggagcag catggtccag ctgagaagc tgctccgcgt
ctgacttg atgaagtcc cctgctgct gctggagggt ctctgtgctg cgctggcggc
ggcggcgcg gccagagaga tgtacgccc gactcaatc cggatcgagg gggacgtcac
cctcgggggg ctgttcccc tgcaagccaa ggttccagc ggaatgccc gggcgacat
caagagggaa aacgggatcc acaggctga agcgtatctc tacgccctg accagatcaa
cagtgatccc aacctactgc ccaacgtgga gctggcgcg cggatcctgg acattgttc
caggacact tacggctcg aacagtgcct tactttcgt caggcgctca tccagaagga
cacctccgac gtgcgtgca ccaacggga accgcccgtt ttcgtcaagc cggagaaagt
agttggagt attgggctt cggggagtcc ggtctccatc atggtagcca acatcctgag
gctctccag atccccaga ttagttatgc atcaacggca ccgagctaa gtgatgaccg
gcgctatgac ttcttctctc gctgtgtgccc accgattccc tccaagccc aggccatggt
agacattgta aaggccctag gctggaatta tgtgtctacc ctgcctcgg aaggaaagta
tggagagaaa ggtgtgagt ccttcacgca gatttccaaa gaggcaggtg gactctgcat
tgccagtc ccaggaatcc cccaggaacg caaagacagg accattgact ttgatagaat
tatcaaacag ctctggaca ccccnaact caggccgctc gtgatttttg ccaacgatga
ggatataaag cagatccttg cagcagccaa aagagctgac caagtggcc attttcttg
ggtgggatca gacagctgg gatccaaat aaacccactg caccagcatg aagatatcgc
agaaggggcc ataccattc agcccaagcg agccacgttg gaagggttg atgcctactt
tacgtccctg acattgaaa acaacagaag aaatgtatgg ttgccgaat actgggagga
aaactcaac tgcaagttga cgattagtgg gtcaaaaaa gaagacacag atcgcaaatg
cacaggacag gagagaattg gaaaagattc caactatgag caggagggtg aagtcagtt
cgtgattgac gcagtctatg ctatggctca cgccctcac cacatgaaca aggatctctg
tgtgactac cggggtgtct gccagagat ggagcaagct ggaggcaaga agttgctgaa
gtatatagc aatgttaatt tcaatggtag tgctggcact ccagtgatgt ttaacaagaa
cggggatgca cctgggctt atgacatctt tcagtaccag accacaaaca ccagcaacc
gggttaccgt ctgatcggc agtgagacaga cgaacttcag ctcaatatag aagacatgca
gtggggtaaa ggagtcgag agataccgc ctcagtgtgc acactaccat gtaagccagg
acagagaaag aagacacaga aaggaaactcc ttgctgttg accgtgagc cttgcgagg
ttaccagtac cagtttgatg agatgacatg ccagattgc cctatgacc agaggccaa
tgaaaaatga accggatgccc aggatattcc catcatcaa ctggagtggc actccccctg
ggctgtgatt cctgtcttcc tggcaatgtt ggggatcatt gccaccatct ttgtcatggc
cactttcatc cgtacaatg acacgcccac tgtcgggca tctggcgagg aactcagcta
tgttcttttg acgggcatct ttctttgcta cateactact ttctgtatga ttgccaacc
agatgtggca gtgtgttctt tccggcgagt ttcttgggc ttgggtatgt gcatcagtta
tgcagccctc ttgacgaaaa caaatcgat ttatcgcata tttagcagg gcaagaaatc
agtaacagct cccagactca taagcccaac atcaacaatg gaatcactt ccagtttaat
atcagttcag ctctagggg tgttcatttg gtttgtgtt gatccacca acatcatcat
agactacgat gaacacaaga caatgaaccc tgagcaagcc agagggttc tcaagtgtga
catcacagat ctccaaatca ttgtctctt gggtatagc atttcttca tggtcacatg

tactgtgtat gccatcaaga ctcggggtgt acccgagaat ttaacgaag ccaagcccat
 tggattcaact atgtacacga catgtatagt atggcttgcc ttcattccaa tttttttgg
 caccgctcaa tcagcgaaa agctctacat acaaaactacc acgttacaa tctccatgaa
 cctaagtga tcaagtgcgc tggggatgct atacatgccg aagtgtaga tcatcatitt
 ccaccctgaa ctcaatgtcc agaaacggaa gcgaagcttc aaggcgtag tcaacagcagc
 caccatgtca tcgaggctgt cacacaaacc cagtgacaga cccaacggtg agcacaagac
 cgagctctgt gaaaacgtag acccaaacag ccctgctga aaaaagaagt atgtcagtta
 taataacctg gttatctaac ctgttccatt ccttggaacc atggaggagg aagacctca
 gtatttttgt caccacacct ggcataggac tctttgtcc taccgcttc ccatcacggg
 aggagcttcc ccggccggga gaccagtgtt agaggatcca accgacctaa acagctgctt
 tatgaaatat ccttacttta tctgggctta ataagtcact gacatcagca ctgccaactt
 ggctgcaatt gtggaccttc cctaccacaa ggagtggtga aactcaagtc ccgccccggc
 tctttagaat ggaccactga gagccacagg accgttttgg ggctgacctg tcttattacg
 tatgtacttc taggttgcaa ggttttgaaa ttttctgtac agttgtgag gacctttgca
 ctttgccatc tgatgtcgta cctcggttca ctgtttgttt tcgaatgcct tgttttcata
 gagccctatt ctctcagacg gtggaatat ttgaaaaatt ttaaaccaat taaaatttta
 aagcaatctt ggcagactaa acaagtaga tctgtacatg actgtataat tacgattata
 gtaccactgc aacatagtgt tttttttttt aagacaaaa agatgttta agacaaaa
 ctgtgctgag aagtatgcc ccacctatct ttggtatatg ataggttaca taaaaggaa
 gtattggctg aactgaatag aggtcttgat ctttgggaatg catgccagta atgtatttta
 cagtacatgt ttattatgtt caatatgtt atttgtgttc tctttgtta ttttaatta
 gggtatatga atattttgca ataatttta taattattaa gctgtttgaa ggaagaata
 tggatttttc atgtcttgag gttttgttca tgcccccttt gactgatcag tgtgataagg
 actttaggaa aaaaagcatg tatgtttttt actgttttga ataatgactt tegttaactt
 tgctgcttat gtgccaattt agtggaataa acaacacct gctgaaaaat tccctcttcc
 cattctctt caattctgt atattgtcca agaagtgtac ataaggaaat tc
 MVQLRKLRLV LTLKFPCCV LEVLLCALAA AARGQEMVAP HSIRIEGDTV LGGLFPVHAK P
 GPSGVPCGDI KRENGIHRLE AMLYALDQIN SDPNLLPNVT LGARLIDTCS RDPYALEQSL
 TFVQALIQKD TSDVRCNGE PPVEVKPEKV VGVIGASGSS VSIMVANIIR LFQIPQISYA
 STAPELSDDR RYDFFSRVVP PDSFQAQAMV DIVKALGNY VSTLASEGSY GEKGVESFTQ
 ISKEAGGLCI AQSVRIPOER KDRTIDFDRI IKQLLDTNPS RAVTIFANDE DIKQILAAK
 RADQVGHFLW VGSDSWGSKI NPLHQHEDIA EGAITIQPKR ATVEGFDAYF TSRTLENNRR
 NWFAEYWEI NFNCKLTISG SKKEDTRKC TQGERIGKDS NYEQEGKVQF VIDAVYAMAH
 ALHHMNKDLG ADYRGVCPPEM EQAGGKKLLK YIRNVNFGS AGTPVMFNKN GDAPGRYDIF
 QYQTTNTSNP GYRLIGQWTD ELQINIEDMQ WKGKGVREIPA SVCTLPCKPG QRKTKQKTP
 CCWTCEPCDG YQYQFDEMTG QHCPYDQPN ENRTGCQDIP IIKLEWHSPW AVIPVFLAML
 GIATIFVMA TFIRYNDTPI VRASGRELSY VLLTGIFLCY IITFLMIAP DVAVCSFRRV
 FLGLGMCISY AALLTKTNRI YRIFEQKKKS VTAPRLISPT SOLAITSSLI SVQLLGVFIV
 FGVDPNNII DYDEHKTNP EQARGVLKCD ITDLQIICSL GYSILMVTG TVYAIKTRGV
 PENFNEAKPI GFTMYTTCIV WLAFIGPFFG TAQSAEKLYI QTTTLTISMN LSASVALGML
 YMPKVYIIF HPENLVQKRK RSEKAVVTAA TMSSRLSHKP SDRPNGEAKT ELCENVDPNS

182 3099 Metabotropic NP_000835.1
 Glutamate
 Receptor 7

Homo
 sapiens

183	3100	Metabotropic Glutamate Receptor 8	PAAKKKYVS Y NNIVI	Homo sapiens
			tgctgtgttg caagaataaa ctttgggtct tggattgcaa taccactgt ggagaaaatg A	
			gtatgcgagg gaaagcatc agcctcttg ccttgtttt tcccttgac cgcaagtctc	
			tactggatcc tcacaatgat gcaagaact cacagccagg agtatgcca ttccatacgg	
			gtggatggg acattattt gggggtctc ttccctgtcc acgcaaaagg agagagaggg	
			gtgccttggt gaggctgaa gaagaaaaa gggattcaca gactggaggc catgctttat	
			gcaattgacc agattaacaa' gaacctgat cctcttcca acatcactct ggtgtgccg	
			atcctcgaca cgtgctctag ggaacctat gctttggag agtcttaac attcgtgcag	
			gcattaatag agaaagatgc ttcggtatg aagtgtgcta atggagatcc accattttc	
			accaagccc aagatttc tggcgtcata ggtgctgcag caagctccgt gtccatcatg	
			gttgctaaca ttttaagact ttttaagata cctcaaatca gctatgcac cagagccca	
			gagctaatg ataacaccag gtatgacttt ttctctcgag tggttccgcc tgactcctac	
			caagcccaag ccatggtgga catcgtgaca gcactgggat ggaattatgt ttcgacactg	
			gcttctgagg ggaactatgg tgagagcgggt gtggagcct tcaccagat ctgagggag	
			attggtgtgt tttgcattgc tcagtcacag aaatccac gtgaaccaag acctggagaa	
			tttgaaaaaa ttatcaaac cctgctagaa acacctaag ctgagcagat gattatgttt	
			gccaatgagg atgacatcag gaggatatgt gaagcagcaa aaaaactaaa ccaaaagtggg	
			cattttctct ggattggctc agatagttgg ggaatcaaaa tagcacctgt ctatcagcaa	
			gaggagattg cagaaggggc tgtgacaatt ttgcccacaa gacatcaaat tgatggattt	
			gatcgatact ttagaagccg aactcttgcc aataatcgaa gaaatgtgtg gtttgcagaa	
			ttctgggagg agaattttg ctgcaagtta ggatcactg ggaagaggaa cagtcataa	
			aagaaatgca cagggtgga gcgaattgct cgggattcat ctatgaaca ggaagggaaag	
			gtccaatgtg taattgatgc tglatatcc atggttacg cctgcacaa tatgcacaaa	
			gatctctgcc ctggatacat tggcctttgt ccacgaatga gtaccattga tgggaaagag	
			ctacttggtt atattcgggc tgtaaaattt aatggcagt ctggcactcc tgtcactttt	
			aatgaaaaac gagatgctcc tggacgttat gatattcc agtatcaaat aaccaacaaa	
			agcacagagt acaagtcac cggccactgg accaatcagc ttcatctaaa agtggaaagac	
			atgcagtggg ctcatagaga acatactcac cggcgtctg tctgcagcct gccgtgtaag	
			ccaggggaga ggaagaaaac ggtgaaagggt gtcccttgt gctggcactg tgaacgctgt	
			gaaggttaca actaccaggt ggatgagctg tccgtgtgaac tttgccctct ggatcagaga	
			cccaacatga accgcacagg ctgccagctt atccccatca tcaaatgga gtggcattct	
			ccttgggctg tgggtgctgt gtttgtgca atattgggaa tcatcgccac cacctttgtg	
			atcgtgacct ttgtccgcta taatgacaca cctatcgtga gggcttcagg acggaactt	
			agttacgtgc tctaaccggg gattttctc tgttattcaa tcacgtttt aatgattgca	
			gcaccagata caatcatatg ctcttccga cgggtcttcc taggacttgg catgtgttcc	
			agctatgcag ccttctgcac caaaacaaac cgtatccacc gaatatttga gcagggaaag	
			aaatctgtca cagcgcceaa gtccattagt ccagcatctc agctggtgat cacctcagc	
			ctcatctccg tccagctcct tggagtgtt gtctgggttg ttgtggatcc cccccatc	
			atcattgact atggagagca gcggacacta gatccagaga aggccagggt agtgcacaag	
			tgtgacattt ctgatctctc actcatttgt tcaatttgt acagtatcct ctgtatgggtc	

184	3100	Metabotropic NP_000836.1 Glutamate Receptor 8	<p>actgtgactg tttatgcaa taaacgaga ggtgtcccag agaattcaa tgaagccaaa cctattgat ttaccatgta taccacctgc atcatttgtg tagctttcat cccatcttt tttggtaacg cccagtcagc agaaaagatg tacatcaga caaacacac tactgtctcc atgagtttaa gtgcttcagt atctctgggc atgctctata tgcccaaggt ttatatata atthttcatc cagaacagaa tgttcaaaaa cgaagagga gcttcaaggc tgtggtgaca gctgccacca tgcaagcaa actgatccaa aaaggaaatg acagaccaa tggcgaggtg aaaagtgaac tctgtgagag tcttgaaacc aacacttct ctaccaagac aacatatc agttacagca atcatatcaat ctgaacacag gaaatggcac aatctgaaga gacgtggtat atgatcttaa atgatgaaca tgagaccgca aaaattcact cctggagatc tccgtagact acaatcaatc aaatcaatag tcagtcttgt aggaacaaa aattagccat gagccaaaag tatcaataaa cggggagtga agaaacccgt tttatacaat aaaccaatg agtgtcaagc taaagtattg cttattcatg agcagttaaa acaaatcaca aaaggaaaac taatgttagc tcgtgaaaaa aatgtgttg aaataataa tgtctgtagt tattcttgta ttttctgtg attgtgagaa ctcccgctcc tgtccacat tgtttaactt gtataagaca atgagctctgt ttcttgtaat ggtgaccag attgaagccc tgggttgtgc taaaaataa tgcaatgatt gatgcatgca atthttata caaataattt atttctaata ataaaggaat gtttgcaaa aaaaaaaaa aaaaactcga g</p>	Homo sapiens
185	3212	Opioid mu- type Receptor	<p>ggaattcccg ctataggcag aggagaatgt cagatgctca gctcgtctcc ctcgcctga A cgctcctctc tgtctcagcc aggaactggtt tctgtaagaa acagcaggag ctgtggcagc ggcgaaaaga agcggttag ggccttgga cccgaaaagt ctcggtgctc ctggctacct cgcacagcgg tgcccgccc ggcgtcagta ccatggacag cagcgtgccc cccacgaagc ccagcaattg cactgatgcc ttggcgtact caagtgtctc cccagcacc agcccgggtt cctgggtcaa cttgtccac ttagatggca acctgtccga cccatgctgt cccaaccgca ccaacctggg cgggagagac agcctgtgccc ctccgacccg cagtcctctc atgatcacgg ccatcacgat catggccctc tactccatcg tgtgcgtggt gggcctcttc ggaacttcc</p>	Homo sapiens

186	3212	Opioid mu- type Receptor	NP_000905.1	MDSSAAPTNA PTGSPSMITA STLPFQSVNY RTPRNAKIIN FAFIMPVLII YVHIALVTI EQNSTRIHQ atgaacacatt ggtccctggc acagggaacc aactacttcc ctctatacca	tggtcatgta tctgattgtc tctggcagat aacatggcca gttcaccagc ccctgtcaag ctggatcctc gcaaggttcc cgtgaagatc ctatggactg ggacaggaat ctgttgact tacgttccag caacctcagc tataccaacc agaccacccc agcagaaact agaagccacc ctaggaagt cacattagag cgaggagtcc tgaagtcac atgacctcaa atgctacctc aggaatgaa ctaaggcatc atgcatccta cgtcatgtgt atcatggggg atctttcatt cttaggcttt tc	agatacacca gccttagcca tttggaaacca atattcaccc gccttagatt tcttcagcca ctggatcctc atagattgta tgtgttttca cttcgaagga cttcgaagga ccattcacca actgtttctt actgtttctt tccacgttgc cttcgaagga ccattcacca tcttcaccca tccacggcca gtctcgttgc atgtatgtgg aagcaggttg aggtcatcca agtaagtgg agacaccag accctctgt ccatctttc ccatctttc acctgaatg tattttagac ccatttctg tgcaagggaa aaggttgatt cctcatgcact cagtggtttg ttcctggaat	Homo sapiens	
187	3223	Muscarinic acetylcholin e Receptor M1	NM_000738	atgaacacatt ggtccctggc acagggaacc aactacttcc ctctatacca	tggtcatgta tctgattgtc tctggcagat aacatggcca gttcaccagc ccctgtcaag ctggatcctc gcaaggttcc cgtgaagatc ctatggactg ggacaggaat ctgttgact tacgttccag caacctcagc tataccaacc agaccacccc agcagaaact agaagccacc ctaggaagt cacattagag cgaggagtcc tgaagtcac atgacctcaa atgctacctc aggaatgaa ctaaggcatc atgcatccta cgtcatgtgt atcatggggg atctttcatt cttaggcttt tc	agatacacca gccttagcca tttggaaacca atattcaccc gccttagatt tcttcagcca ctggatcctc atagattgta tgtgttttca cttcgaagga cttcgaagga ccattcacca actgtttctt actgtttctt tccacgttgc cttcgaagga ccattcacca tcttcaccca tccacggcca gtctcgttgc atgtatgtgg aagcaggttg aggtcatcca agtaagtgg agacaccag accctctgt ccatctttc ccatctttc acctgaatg tattttagac ccatttctg tgcaagggaa aaggttgatt cctcatgcact cagtggtttg ttcctggaat	accaggaaag tccgtcgct cggaagctca gacagtcaat ctccatgaac tggtgacct gcacgtggc tggtgacct	Homo sapiens

188	3223	Muscarinic acetylcholin e Receptor M1	NP_000729.1	<p> tggctggccc tggactatgt ggcagcaat gctccgtca tgaatctgt gctcaccg tttgaccgct acttctccgt gactcgccc ctgagctacc gtgccaagc cacacccgc cggcagctc tgatgatcg cctggcctgg ctggttctt ttgtgctctg gccccagcc atccttctt ggcagtaacct ggtaggagc cggacgatgc tagctgggca gtgtacatc cagttctct cccagccat cctacattt ggcacagcca tggctgcctt ctacctcct gtcacagtca tgtgacgct ctactggcg atctaccgg agacagagaa ccgagcacgg gagctggcag cccttcagg ctccgagag ggcgcaaa ggggtggcag cagcagcagc tcagagaggt ctccagccagg gctgagggc tcaccagaga cctctccagg ccgctgctgt cgctgtgcc gggcccccag gctgctgag cctacagct ggaaggaaga agaggaagag gacgaaggct ccattggagc cctcacatcc tcagagggag agggagcctg ctcggaagtg gtgatcaaga tgccaatggt ggacccgag gacaggccc ccaccaagca gccccacgg agctcccaa atacagtcaa gaggccgact aagaaaggc gtgatcgagc tggcaaggc cagaagcccc gtggaagga gcagctggcc aaggggaaga ccttctcgt ggtcaaggag aagaaggcgg ctcggacct gactgacct ctcctggcct tcactctcac ctggacacg taaacatca tggctgctgt gtccacctc tgaaggact gtgtcccg gacctgtgg gagctgggct actggctgtg ctacgtcaac agcaccatca acccatgtg ctacgcactc tgcaacaaag ccttccggga cacttctgc ctgtgctgc tttgcgctg ggacaaaga cgctggcgca agatccccc aagcctcggc tccgtgcacc gcaactccct ccgccaatgc tga </p>	Homo sapiens
189	3224	Muscarinic acetylcholin e Receptor M2	NM_000739	<p> atgaataact caacaaact cctcaacaat agcctggctc ttacaagtc ttataagaca A tttgaagtgg tgtttattgt cctgtggctt ggtaccctca gtttggtag cattatcggg aacatcctag tcatggttcc cattaaagtc aaccgccacc tccagaccgt caacaattac ttttattca gcttggcctg tctgacctt atcataggtg ttctctccat gaactgtac acctctaca ctgtgattgg ttaactggcct ttgggacctg tgggtgtgta ccttggcta gacctggact atgtggtcag caatgccctca gttatgaatc tgcatacat cagctttgac aggtacttct gtgtcacaaa acctctgacc taccagtc aagcgaccac aaaaatggca ggtatgatga ttgcagctgc ctgggtcctc tctttcatc tctgggctcc agccattctc ttctggcagt tcattgtagg ggtgagaact gtggaggatg gggagtgtta cattcagttt ttttccaatg ctgctgtcag ctttggtagc gctattgag ccttctattt gccagtgtc atcatgactg tgctatatgg gcacatatcc cgagccagca agacaggat aagaaggac aagaaggagc ctgttgccaa ccaagacccc gtttctccaa gtctgtgata aggaaggata gtgaagccaa acaataacaa catgccagc agtgacgatg gcctggagca caacaaatc cagaatggca aagccccag ggatcctgtg actgaaact gtgttcaggg agaggagaag </p>	Homo sapiens

190	3224	Muscarinic acetylcholin e Receptor M2	NP_000730.1	<p>gagagctcca atgactccac ctcaagtcagt gctgttgctt ctaatatgag agatgatgaa ataaccagg atgaacaac agtttccact tccctgggctt attccaaaga tgagaactct aagcaaacat gcatcagaat tggcaccagg accccaaaa gtgactcatg taccctaaact aataccaccg tggaggtagt ggggtcttca ggtcagaatg gagatgaaaa gcagaatatt tagcccgca agattgtgaa gatgactaag cagccctgcaa aaaagaagcc tccctcctcc cggaagaaga aagtcaccag gacaatcttg gctattctgt tggctttcat catcacttgg gcccataca atgtcatgtt gctcattaac acctttgtg cactttgcat ccccaacact gtgtggacaa ttggttactg gctttgttac atcaacagca ctatcaaccc tgcctgtctat gcactttgca atgccacctt caagaagacc tttaaacacc ttctcatgtg tcattataag aacataggcg ctacaagta a</p>	Homo sapiens
191	3226	Muscarinic acetylcholin e Receptor M4	LG1143	<p>MNNSTNSSNN SLALTSPYKT FEWFIVLVA GSLSLVTIIG NILVMVSIKV NRHLQTVNNY P FLFSLACADL IIGVFSMNLV TLYTVIGYWP LGPVVCDLWL ALDYVVSNAS VMNLLIISFD RYFCVTKPLT YPVKRTTKMA GMMIAAAWVL SFILWAPAIL FWQFIVGVRT VEDGECYIQF FSNAAVTFGT AIAAFYLPVI IMTVLYWHIS RASKSRIKDD KKEPVANQDP VSPSLVQGRV VKPNNNMNPS SDDGLEHNI QNGKAPRDPV TENCVOGEEK ESSNDSTSVS AVASNMRRDE ITQDENTVST SLGHSKDENS KQTCIRIGTK TPKSDSCTPT NTTFVEWVWSS GQNGDEKQNI VARKIVKMTK QPAKKKPPPS REKKVTRTIL AILLAFIITW APYNVMVLIN TFCAPCIPNT VWTIGWLVCY INSTINPACY ALCNATFKKT FKHLMLCHYK NIGATR CCTGGCAGTG CCGATGTTCC GATACTGGCA CAGCAGCCAGG TCGCGGAAGG TCTTTTAA A GGTGGCGTGG CACAGAGCAT AGCAGGCAGT GTTGATGGTG CTGTGACGT AGCAGAGCCA GTAGCCAATG GACCACACCG GGTGAGGAT GCAGCTCTGG CAGAGGTGT TCACCAAGGAC CATGACGTTG TGAGGCGTCC CCGTGAGGAT GAAAGTAAAC ANAATGGCAA AGATCGGTGCG TGGCATTGTTG CGCTCCCGGG CCCGCATCTG CCGCTTCTTG CGCACCTGGG TGGGAGCGAT GCTAGCGAAC TTGGGGGCCA CGTTGGCCGC AGGCGCATGC CAGNCGGCGT GGGAGGGACA ATCTCAGGGC TGGCACACAC TCATGGGCTG GCTGGCTTCG TCAAATTTTG GATCTTGGAC CATCTGGGAG GCTTGGTTGA AGGCCCCCGG CTGGGACTTG CCGGCATGAA TCCAGGCCCTT ACTCTANAGG ATCCCCCCTT CTCC</p>	Homo sapiens
192	3226	Muscarinic acetylcholin e Receptor M4	NM_000741	<p>atggccaact tcaacacctgt caatggcagc tcgggcaatc agtccgtgag cctgggtcagc A tcatcatccc acaatcgcta tgagacggtg gaaatgggtct tcaatggccac agtgacaggc tccctgagcc tggtagctgt cgtgggcaac atcctgggtga tgctgtccat caaggtcaac agggcagctgc agacagtcac caactacttc ctcttcagcc tggcgtgtgc tgatctcatc ataggcgctt tctccatgaa cctctacacc gtgtacatca tcaagggcta ctggccccctg ggcgccgtgg tctgcgacct gtggctggcc ctggactacg tggtaggcaa cgcctccgctc atgaaccttc tcatcatcag ctttgaccgc tacttctgcy tcaaccaagc tctacactac cctgccccgc gaaccaccaa gatggcagcc ctcatgattg ctgctgacct ggtactgtcc ttcgtgctct gggcgccctgc catcttgttc tggcagtttg tggtaggtaa gcggacggtg cccgacaacc actgcttcat ccagttccctg tccaacccag cagtgaacct tggcacagcc attgtgctt tctacctgcc tgtgtgtcatc atgacggtgc tgtacatcca catctccctg gccagtgcga gccgagtcca caagcaacgg ccgaggggccc gaaaggagaa gaaagccaag acgtggcct tctcaagag cccactaatg aagcagagcg tcaagaagcc ccgccccgga ggcgccccgg gaggactgcy caatggcaag ctggaggagg cccccccg agcgtgcga</p>	Homo sapiens

193	3226	Muscarinic acetylcholin e Receptor M4	NP_000732.1	<p>cgccaccgc gccccgtggc tgataaggac. acttocaatg agtcacagtc aggcagtgcc acccagaaca ccaaggaacg cccagccaca gagtgtcca ccacagaggc caccactccc gccatgcccg cccctccct gcagccgagg gcectcaacc cagctccag atggtocaaag atccagattg tgacgaagca gacaggcaat gagtgtgtga cagccattga gattgtgcct gccacgcccg ctggcatgag cctgcccgc aagtgggccc gcaagttcgc cagcatcgct cgaaccagg tgcgcaagaa gcggcagatg gcggcccgg agcgcaaat gacacgaacg atctttgcca ttctgttagc cttcatctc accggcagc cctacaaagt catggtcctg gtgaacacct tctgccagag ctgcacccct gacacgggtg ggtccattgg ctactggctc tgcctacgtca acagacccat caacctgcc tgcctatgct tgtgcaacgc caccitaaa aagaccttc gccacctgct gctgtgccag tatcggaaca tcggcactgc caggtag RQLQTVNNYF LFSLACADLI IGAFSNLYT VYIKGYWPL GAVVCDLWLA LDYVVSNASV MNLIIISFDR YFCVTKPLTY PARRTKMAG LMTAAAWLS FVLWAPALF WQFVVGKRTV PDNHCFTQFL SNPAVTFGA IAAFYLPWI MTVLYIHISL ASRSRVHKHR PEGPKEKKAK TLAFKSPIM KQSVKKPRPG GRPGGLRNGK LEEAPPALP PPPRPVADKD TSNESSGSA TQNTKERPAT ELSTTEATP AMPAPLQPR ALNPASRWSK IQIVTKQTGN ECVTAIEIVP ATPAGMRPAA NVARKEASIA RNOVRKKRQM AAPERKVTRT IFAILLAFIL TWTPYNVMVL VNTFCQSCIP DTWISIGYWL CYVNSTINPA CYALCNATFK KTFRHLILCQ YRNIGTAR</p>	Homo sapiens
194	3227	Muscarinic Acetylcholin e Receptor M5	NM_012125	<p>atggaagggg attcttacc caatgcaacc accgtcaatg gcacccagtc aaatcaccag A ccttggaaac gccacaggtt gtgggaagtc atcaccattg cagctgtgac tgctgtggta agcctgatac ccattgtggg caatgtcttg gtcattgatc ccttcaaat caacagccag ctcaagacag ttaacaacta ttacctgtc agcttagcct gtgcagatct catcattgga atcttctcca tgaacctcta caccacctac atctcatgg gacgtgggc tctcgggagt ctggcttggt acctttggct tgcaactggac tacgtggcca gcaacgcttc tgteatgaac ctctgggtga tcagtttga ccgttacttt tccatcacia gaccttgac atatcgggcc aagcgtactc cgaagaagggc tggcatcatg attggcttgg cctggctgat ctccttcac ctctgggcc cagcaatcct ctgctggcag tacttggttg ggaagcggac agttccactg gatgagtgc agatccagtt tctctctgag cccaccatca cttttggcac tgcattgct gccttctaca tccctgttc tgtcatgacc atcctctact gtcgaatcta ccgggaacaa gagaagcga ccaaggacct ggctgacctc cagggttctg actctgtgac caaagctgag aagagaaagc cagctcatag ggctctgttc agatcctgct tgcgtgtgccc tgcacccacc ctggcccagc gggaagaggaa ccaggcctcc tggctatcct ccgcaggag cactccacc actgggaagc catcccaagc cactggccca agcgccaatt ggccaaagc tgagcagctc accacctgta gcagctaccc ttctcagag gatgaggaca agcccgccac tgacctgtc ctccaagtgg tctacaagag tcagggttaag gaaagcccag gggagaatatt cagtgtgaa gagactgagg aaacttttgt gaaagctgaa actgaaaaa gtgactatga caccctaac taccttctgt tccagcagc tgcctataga cccaagagtc agaatgtgtt ggctataag ttccgattgg tggtaaaagc tgacggggaac caggagacca caatggctg tcacaagggtg aaatcatgc cctgcccctt cccagtggcc aaggaaactt caacgaaag cctcaatccc aacccagcc atcaatgac caaacgaaag agagtgtgccc tagtcaaga gaggaaagca gccagacac tgagtgcct tctcctggcc ttcatcatca catggacccc gataaacatc</p>	Homo sapiens

195	3227	Muscarinic Acetylcholin e Receptor M5	NP_036257.1	atggtcctgg ttttacctt ctgtgacaag tgtgtccag tcacctgtg gcactgggc tattggtgt gctatgtcaa tagcactgc aacctatct gctatgccct ctgcaacaga accttcagga agaccttaa gatgctgctt ctctgccgat ggaagaaaga aaaagtggaa gagaagtgt actggcagg gaacagcaag ctacctga MEGDSYHNAT TVNGTPVNHQ PLEHRLWEV ITIAATVAV SLITIVGNL VMISFKVNSQ P LKTVMNYLL SLACADLIIG IFSMNYTTY ILMGRWALGS LACDLMLALD YVASNASVMN LLVISFDRYF SITRPLTYRA KRTPKRAGIM IGLAWLISFI LWAPAILCWQ YLVGKRTVPL DECQIQELSE PTTTFGTIA AFYIPVSVMT ILYCRIYRET EKRTKDLADL QGSDSVTKAE KRKPAHRAIF RSLRCRPT LAQRERNOAS WSSSRSTST TGKPSQATGP SANWAKAEQL TTCSSYPSSE DEDKPADPV LQWYKSQK ESPGEESAE ETEETFKAE TEKSDYDTPN YLLSPAAHR PKSOKVAYK FRLVVKADGN QETNNGCHKV KIMPCFPVA KEPSTKGLNP NPSHQMTKRK RVVLVKERKA AOTLSAILLA FIITWTPYNI MVLSTFCDK CVPVTLWHLG YWLICYNVSTV NPICYALCNR TFRKTFKMLL LCRWKKKVE EKLYWQNSK LP	Homo sapiens
196	3378	Tachykinin Receptor 3	NM_001059	ctattgcagt atctttcagc ttccagtctt atctgaagac ccgggaccca aagtgaccag A gaggcagaga agaacttcag aggagtctcg tcttgggctg ccgtgggtg agtgggaggg tccgggactg cagaccgtg gcgatggcca ctctccagc agcagaaacc tggatagacg gggtggagg cgtgggtgca gacgccgtga acctgaccgc ctgctagct gccggggcgg ccacgggggc agtgagact gggtggctgc aactgtgga caagctggc aacctctct cctcccttc cggctggga ctgctgtgg ctctcccgcc gccctccag ccttgggcca acctcaccaa ccagtctgtg cagccgtctt ggccgctgc gcctggctcc ctggcgtatg gtgtggtgtt ggcagtggca gttttgggaa atctcatcgt catctggatc atcctggccc acaaagcgcac gagactgtc accaactact tcttbtgaa cctggcttcc tccgacgct ccatggccgc ctcaaacacg ttggtcaatt tcatcacgc gttcatagc gagtggtagt ttggcgccaa ctactggccg ttccagaact tctttctat cacagctgtg ttgcccagca tctactccat gacggccatt gcgtgggaca ggtatatggc tattattgat ccttgaaac ccagactgtc tgcacagca accaagattg tcatgggaa tatttgatt ctgacttct tacttgcctt cctcagtggt ctttattcca aaaccaaagt catgccaggc cgtactctct gctttgtgca atggccagaa ggtcccaaac aacatttcc ttaccatatt atcgtcata tactgggtga ctgtttcca ttgctcata tgggtattac atacaccatt gttggaatta ctctctgggg aggagaaatc ccaggagata cctgtgacaa gtatcatgag cagctaaagg cctctctgggg ggtgtgcaaa atgatgatta ttgtgtcat gacatttgc atctgctggc tgccctatca tatttacttc atctcactg caatctatca acaactaat agatggaaat acatccagca ggtctacctg gtagctttt ggctggcaat gagtcaacc atgtacaatc ccatcatcta ctgctgtctg aataaaagat ttgagctgg cttcaagaga gcatttcgct gggtgctt catcaaaagt tccagctatg atgagctaga gctcaagacc accaggttcc atccaaaccg gcaagcagt atgtacaccg tgaccagaat ggagtccatg acagtctgt tgaccccaa cgtgcagac accaccaggt ccagtcggaa gaaaagagca acgccaagag accaggtt caatggctgc tctgcagga attccaaatc tgcctccgc acttcaagtt tcataagctc accctatacc tctgtggatg aatatctta attocattc ctgaggtaaa agattagtg gagaccatca tgggtccagt ctaggacccc attctctat ttatcagtc tgtcctatat acctctaga aacagaaagc aatttttagg cagctatggt caaattgaga	Homo sapiens

197	3378	Tachykinin Receptor 3	NP_001050.1	<p>aaggtagtgt ataatgtga caaagacact aataacatgt tagcctccac ccaaaataaa atgggcttta aattt</p> <p>MATLPAETW IDGGGVGAD AVNLTAALAA GAATGAVETG WLQLDQAGN LSSSPSALGL P PVASPAPSQ WANLTNQEVQ PSWRIALWSL AYGVVAVAV LGNLIVIIWII LAHKRMRTVT NYFLVNLAFS DASMAAENTL VNFYIALHSE WYFGANYCRF QNEFFITAVF ASIYSMTAIA VDRYMAIDP LKPRLSATAT KIVIGSIWIL AFLLAFFQCL YSKTKVMPGR TLCFVQWPEG PKQHFTYHII VIIIVYCFPL LIMGITYTIV GITLWGGEIP GDTCDKYHEQ LKAKRKVVKM MIIIVNTFAI CWLPYHIYFI LTAIYQQLNR WKYIQQVYLA SEWLAMSSIM YNPIIYCCIN KRFRAGFKRA FRWCPFIKVS SYDELELKT RFHPNRQSSM YTVTRMESMT VFDPNDADT TRSSRKRRAT PRDPSFNGCS RRNSKSASAT SSFISSPYTS VDEYS</p>	Homo sapiens
198	3380	Neuromedin B Receptor	NM_002511	<p>gtgctgtgag gcttgccgcg ggacagtaaa cttgcagggg cgagagggag ggacatcgat A taaacctaaa tctgtggcgt tcaagtctca gggcaccgag cgcgtgaaaa ctccagcgga ctctgtgga aaggagatca tgccctctaa gtctcttcc aacctctcg tgaccaccgg cggaatgag agcggttccg ttcccagggg gtgggaaagg gatttcctgc cggcctcgga cgggaccacc acggagttgg tgatccgctg gtggaagatc tccctctacc tgctcatcat cacgtgggc ttgctgggca acatcatgct ggtgaagatc tccatcacca acagcgccat gaggagcgtc cccaacatct tcatctctaa cctggcggcc ggggacctgc tgcgtgctt cacctgcgc coggtggagc cctgcgccta cttcttcgac gagtggatgt ttggcaaggt gggtgcaaa ctgataccctg tcatccagct cactccctg ggggtttccg tgttacctt cactgcccc agcgcgcaca ggtacagagc catcgttaac cccatggaca tgcagacgtc aggggcatg ctgcggacct gtgtgaaggc catgggtatc tgggtggtct ccgtgtgct ggcagttccc gaagcgggtg ttacagaagt ggtcgcgcat agtagcttg ataatagcag cttcacagca tgtatcccat accctcaaac agatgaatta catccaaaaga ttcattcagt gctcatttct ttggtctatt tctctatacc acttgctatt attagcattt attattatca tatgcaaaag accttaatta aaagcgcaca caatcttctt ggagaatata atgaacatac caaaaaacag atggaaacac ggaacgcctt ggtataaatt gtgcttctt ttgtggctg tttcatcttc tgttggttcc caaacacat cctttacatg tatcggtctt tcaactataa tgagattgat ccatctctag gccacatgat tgtcacctta gttgcccggg ttctcagttt tggaattct ttgttcaacc catttgctct ttacctactc agtgaagggt ttcagagtt tttcaacagc caactctgct gtgggaggaa gtctatcaa gagagaggaa ccagctacct actcagctct tcagcgtgc gtatgacatc tctgaaaagc aatgctaaga acatggtgac caattctgtt ttactaaatg ggcacagcat gaagcaggaa atggcaatgt gattttggcc attcaactca ctacctggag agaacttagt aa</p>	Homo sapiens
199	3380	Neuromedin B Receptor	NP_002502.1	<p>MESKSLNLS VTTGANESGS VPEGWERDFL PASDGTTEL VIRCVIPSLY LLIITVGLIG P NIMLVKIFIT NSAMRSVPNI FISNLAAGDL LLLTCTVPVD ASRYFFDEWM FGKVGCKLIP VIQLTSVGVS VFTLTALSAD RYRAIVNPMQ MQTSGALLRT CVKAMGIWV SVLLAVPEAV FSEVARISL DNSSFTACIP YPQTDLHPK IHSVLIFLV FLIPLAISI YYHIAKTLI KSAHNLPEY NEHTKKQMET RKRLAKIVLV FVGCFFCFWF PNHILMYRS FNYNEIDPSL GHMIVTLVAR VLSFGNSCVN PFALYLLSES FRRHENSQLC CGRKSQERG TSYLLSSAV RMTSLKSNK NMVTNSVLLN GHSMKQEMAM</p>	Homo sapiens

200

3404

Neuropeptide NM_000910
Y Receptor
Type 2Homo
sapiens

tatcctatcc ctatcctagc ttttaacctg agccagagct cactacacag gttcctggct A
atcgagtctg aatctgcact actcaactta taaactgtct gcagacacct gttaggga
ttgctgatca tggcgccgag gatctgaact cgttttacct tcttgtttgg agcacaggga
cgcgccagct agaggagcac cagcgcactg cgccccagcc ctgggcgagg gtgcgagga
tttgttctcg tgcgaatcct gctggcgctt ttccgggggt ctgcgcgat ccagctcccc
atctctgctc ctacacacac aaagaaaaac aactctgat tggaaattgt ggaattttct
cagccccctac gagcgccggg gattctccag ccccgccct cctcccgcga gctgaggtc
tccttcgctc gcttcgcttg ctagggacgc cagtcctca gcgcagctg ggtctgtccg
ccccgccttt gcccctgcct ttccccggg cggaatttgt gaagtcggcc tcaagtcacg
gaggtctgtc ttcccgccgc cagctctgc ggaactggg gtagagagc aaaggagag
attcgtggaa ggaagggag gtaggggtg gcgaacgcc cagagtatca aacttggggg
tggcacagta ggtgacagca gcagctgcag gtgtgtggct gggaccgcg agggggcgcc
cctctgggta ggtctggtc gagcggtctt gcaagcccg gagcggtg agagacctg
gacactgtc ctgctccctc gccacaaaaa cttctctcc agtccccct cctgcaggac
cctgcctcc agcctctgca cctgttttct tctccacott ccccgcgagt gagtgcgtg
ccacgtctcc atctctgac ctcccacott ccccgcccc ccccgcgagt gagtgcgtg
ccaggcgcg cttggcctga gaggtcggca gcagaccccg cagcgccaac cgccccgcg
ctctgactgc tccggctgcc cgcccgccg gcggtgggtg tctgggacc taggagggga
cggaaccgga cttgcccctt ggacacctcc agggccctct ccaggtcggc tggctaata
tcggacagac ggactgcaca catctgttt ttggtgtgac ccaaaaaac gaggtccagg
tcagttgtag actctgtgc ttgttgccag ccaagtggac ctgtactgaa aatgggtcca
ataggtgcag aggtgatga gaaccagaca gtggaagaaa tgaaggtgga acaataggg
ccacaaacaa ctctagagg tgaactggct cctgacctg agccagagct tatagatagt
accaagctga ttgaggtaca agttgtctc atattggct actgtccat catctgtctt
gggttaattg gcaactcctt ggtgatccat gtgtgatca aattcaagag catgcacaca
gtaaccaact ttttcattgc caatctggct gtggcagatc ttttgggtgaa cactctgtgt
ctaccgttca ccttaccta taccttaatg ggggagtgga aaatgggtcc gtctctgtgc
cacctgggtc cctatgccc gggcctggca gtacaagtat ccacaatac cttgacagta
attgcccctg accggcacag gtgcctgctc taccacctag agagcaagat ctccaagcga
atcagcttcc tgattattgg cttggcctgg ggcctcagtg cctgtctggc agtccccctg
gcatcttcc gggagtattc gctgattgag atcatcccg actttgagat tgtggcctgt
actgaaaaat ggcctggcga ggagagagc atctatggca ctgtctatag tctttcttcc
ttgtgatct tgtatgtttt gcctctggc attatatac ttctctacac tcgcatttgg
agtataattga agaaccatgt cagtcctgga gctgcaaatg accactacca tcagcaagg
caaaaaacca ccaaatgct ggtgtgtgtg gtggtgtgtg ttgcggtcag ctggctgcct
ctcatgctct tccagcttgc cgttgacatt gacagccagg tccctggacct gaaggagtag
aaactcatct tcacagtgtt ccacatcac gccatgtgct ccacttttgc caatccccct
ctctatggct gtagaacag caactacaga aggtcttcc tctcggcctt ccgctgtgag
cagcggttgg atgccatca cctgaggtg tccgtgacat tcaaggtcaa aaagacctg
gaggtcagaa agaacagtgg cccaatgac tctttcacag aggtaccaa tgtctaagga
agctgtgggt tgaataatga tggatgaatt ctgaccagag ctatgaattc ggtgatggc

201	3404	Neuropeptide NP_000901.1 Y Receptor Type 2	<p> ggctcacaag tgaaaactga tttcccat ttaagaagaa gtggatctaa atggaagcat ctgctgttta attcctggaa aactggctgg gcagagcctg tgtgaaata ctggaattca aagataaggc acaaaaatgg tttacttaac agttggtgg gtagtaggtt gcattatgag taaaagcaga gagaagtact tttgattatt ttcttgaggt gaagaaaact tgaacaagaa attggtatta tcaagcatt gctgagagac ggtgggaaaa taagttgact ttcaaatcac gttaggacct ggattgagga ggtgtgcagt tcgctgctcc ttgcttggt tatgaaaaca ccactgaaca gaaatttctc caggagagcca caggctctcc ttcatcgcat ttgtattttt ttgttcattc tctagacaaa atccatcagg gaatcctgca ggaacagatt gccaaactata cgaatggctt cgaggagata aactgaaatt tgctatatata ttaatatattt ggcagatgat aggggaactc ctcaacactc agtgggcca tttgttcttaa aaccaattgc acgtttggtg aaagtttctt caactctgaa tcaaaagctg aaattctcag aattacagga aatgcaaac atcattttaat ttctaatttc aagttacatc cgctttatgg agatactatt tagataacaa gaatacaact tgatactttt attgtttatc ctttttgaac atgtatgatt tctgttgtta tttacotttt taaacagata aatatatttt ttcatattta gtagagcggg atctaattt aatctaactt tttaggagta tatttcagag aaattccaag cacaccagta tgaccatcct tatttcagaa atgacaatgc atagaggaaa agtaatatgt gcaaaagcctc cgaagaggat ggttaagtaa agacttaggt taccagatc aggtttcgt ttttgatgt aggtagctct actgcctcct cttaaaacca acaaaaggaaa gagagactgg ctgcaaaact ttagaagaa tggtctcgaa tagggttctt gggaggaaatc ccgaggaaat agacgtctgt gctctgctga ttgtctccac tctctgttt tgctctacc cactaatcca ccctgggagg ctctgggcat tagcggaagg cttaccaca aggagacagg agcgagtatt ccataggcat cgctcctag tggcacaggt ggcttgggtc aggatcaaa agtgaaggat tcggaagtca gctatctgga gagagagaga gattgtgttt tattegttc ccatagcttt cctatcctat ccctatccta gcttttaacc tgagccagag ctcactacac aggttccctg cctatcgagt tgaatctgca ctactcaact tataaactgt ctgcagacac ctgttaggga aattgctgat catggcgggc aggatctgaa ctgcctttac cttctgtttt ggagcacagg gaccgcccag cttagaggagc accagcgac tgcgcccag ccctgggcca ggtgctggag gattgttct cggtgcaatc ctgctggcgc ttttccgggg tctgcgcgg atccagctcc ccatctctgc tctacacac acaaaagaaa acaactctcg attggaagtt gtggaatttt ctcagcccc acgaggcgcg gggattctcc agccccggcc ctctccccc cagcctgagg tctccttcgc tcgctgcct tgctagggac cgcagtcct cagcgcgagc tgggtctgtc cgccccgct ttgcctcgc cttttcccg ggcggaattg gtgaagtcgg cctcaagtc aggaggtctg tcttcgcccg gccagctctc </p>	<p> IDSTKLEIVQ VVLIAYCSI P TLCLPFTITY TLMGEWMGP SKRISFLIIG LAWGISALLA LSSLLILYVL PLGIISFSYT WLPPLHAFOLA VDIDSQVLDL RCEQRDLDAH SEVSVTFKAK NYRKAFLSAF VCVVVFEAVS NPLLYGWMNS V PNDSTFEATN </p>	Homo sapiens
-----	------	--	---	---	--------------

202	3405	Neuropeptide NM_005972 Y Receptor Type 4	atgaacaccc ctacacctctt ggccttgctg ctocaaaaat ctocacaagg tgaaaaaca A agcaaaccccc tgggaccccc atacaacttc tctgaacatt gcagagattc cgtggacgtg atggtcttca tctgcacttc ctacagcaat gagactgtcg tgggggtcct gggtaacctc tgccctgatgt gtgtgactgt gaggcagaag gaaaaagcca acgtgacca cctgctttat gccaacctgg ccttctctga cttcctcatg tgccctctct gccagccgct gaccgccgtc tacaccatca tggactactg gatctttgga gagacctctc gcaagatgtc ggccttcac cagtgcattg cgtgacggt ctccatcctc tgcctgtctc tgcctggcct ggagaggcat cagctcatca tcaaaccaac agcctggaag cccagcatct cacaggccta cctggggatt gtgctcatct gggctattgc ctgtgtcttc tccctgcccc tccctggcaa cagcatcctg gagaatgtct tccacaagaa ccaactcaag gctctggagt tccctggcaga taagtgtgtc tgtaccgagt cctggccact ggctcaccac cgcaccatct acaccacctt cctgctctc ttccagttact gctcccaact gggcttctatc ctggtctgtt atgcacgcat ctaccggcgc ctgcagaggc aggggcgctg gtttcaaac ggcacctaca gcttgcgagc tgggcacatg aagcagggtca atgtggtgct ggtggtgatg gtggtggcct ttgcccgtgt ctggtgcct ctgcattgtg tcaacagcct ggaagactgg caccatgagg ccatccccc ctgccacggg aacctcatct tcttagtgtg ccacttgctt gccatggcct ccacctgcgt caacccttc atctatggct ttctcaaac caactcaag aaggagatca aggcctggt gctgacttgc cagcagagcg cccccctgga ggagtggag catctgccc tgtccacagt acatacgaa gtctcaaac ggtccctgag gctaagtggc aggtccaact ccatttaa MNTSHLLALL LPKSPQGENR SKPLGTYNF SEHQDSVDV MVFIVTSYSI ETVGVGLGNL P CLMCVTVRQK EKANVTNLLI ANLAFSDFLM CLLCQPLTAV YTIMDYWIFG ETLCKMSAFI QCMSVTVSIL SLVLVALERH QLIINPTGWK PSISQAYLGI VLIWVIACVL SLPFLANSIL ENVEHKNHSK ALEFLADKVV CTESWPLAH RTIYTTELLL FQYCLPLGFI LVCYARIYRR LQRQGRVFHK GTYSLRAGHM KQNVNVLVVM VVAFVILWLP LHVFNSLDWW HHEAIPICHG NLIFLVCHLL AMASTCVNPF IYGFINTNFK KEIKALVLTQ QQSAPLEESE HPLSTVHTE VSKGSLRLSG RSNPI	Homo sapiens
203	3405	Neuropeptide NP_005963.1 Y Receptor Type 4	gaaaggctat cggtaacaac tgacctgcca caagttaga agaaaggatt gattcaagaa A agactataat atggatttag agctcgacga gtattataac aagacacttg ccacagagaa taatactgct gccactcgga attctgattt ccagctctgg gatgactata aaagcagtgt agatgactta cagtattttc tgattgggct ctatacattt gtaagtcttc ttgctttat ggggaatcta cttattttaa tggctctcat gaaaaagcgt aatcagaaga ctacggtaaa cttctcata ggcaatctgg cctttctga tatcttggtt gtgctgtttt gctcaccttt cacactgacg tctgtcttgc tggatcagtg gatgtttggc aaagtcatgt gccatattat gccttttctt caatgtgtgt cagtttttgg tccaacttta attttaatat caattgccat tgtcagggtat catatgataa aacatcccat atctaataat ttaacagcaa accatggcta ctttctgata gctactgtct ggacactagg ttttgccatc tgttctcccc ttccagtgtt tcaacagtct gtggaaactc aagaacatt tggttcagca ttgctgagca gcaggatttt atgtgttgag tcatggccat ctgattcata cagaattgcc ttactatct ctttattgct agttcagtat attctgacct tagtttgtct tactgtaagt catacaagtg tctgcagaag tataagctgt ggattgtcca acaagaagaa cagacttgaa gaaaatgaga tgatcaactt aactcttcat ccatccaaaa agagtgggccc tccgttgaaa ctctctggca gccataaatg	Homo sapiens
204	3406	Neuropeptide NM_006174 Y Receptor Type 5		Homo sapiens

205	3406	Neuropeptide NP_006165.1 Y Receptor Type 5	gagttattca ttcatcaaaa aacacagaag aagatatagc aagaagacag catgtgtgtt acctgctcca gaaagacctt ctcaagagaa ccactccaga atacttccag aaaactttgg ctctgtaaga agtcagctct cttcatccag taagtccata ccagggtcc ccaattgctt tgagataaaa cctgaagaaa attcagatgt tcatgaattg agagtaaaac gttctgttac aagataaaaa aagagatctc gaagtgtttt ctacagactg accatactga tattagtatt tgctgttagt tggatgccac tacacctttt ccatgtggtg ttgcatgtgt ccatgtgtg tatttcaaat aggcatttca agttggtgta ttgcatgtgt ccatgtgtg gcatgatgtc ctgtgtctt aatccaattc tatatgggtt tcttaataat gggattaaa gctgattagt gtcccttata cactgtcttc atatgtaata attctcaact ttt LILMALMKR NQKTVNFI GNLFSDILV VLFCSPTLT SVLLDQWMFG KVMCHIMPFL QCVSVLVSTL ILSIAIVRY HMIKHPISN LNANHYFLI ATVWTLGFAI CSPLPVFHSI VELQETFGSA LLSRYLCVE SWPSDSYRIA FTISLLLVQY ILPLVCLTVS HTSVCRSISC GLSNKENRLE ENEMINLTLH PSKSGGPQVK LSGSHKWSYS FIKKRRRYS KKTACVLPAP ERPSQENHSR ILPENFGSVR SOLSSSKFI PGVPTCFEIK PEENSVDHEL RVKRSVTRIK KRSRSVFYRL TILILVFAVS WMPLHLFHV TDENDNLISN RHFKLVYCIC HLLGMSCCL NPILYGLFNN GIKADLVSLI HCLHM	Homo sapiens
206	3408	Neurotensin Receptor Type 1	tcaagctcgc cccgcgcagc ccgagccggg ctggcgctg tctcggggg cctggggaac A cgcgcggttt ggagatcgga gccacttggg acccgtggca agcgcgcagc cgggagacag cccgaggaac cagcggttct ggagctagga gccggaagct gggagtcgg aggagagcgg agcccgagc ccggagccg gggcgccgcg tctgggtctg gcgttcccg actggagcgg ggcccgctg gtcttgcga cgcgcctcc cctgggctcg cgttcacg tccccgctg agacgcgcc actcctgcc ggactccag cccggaggc gccggacaga gccgcgact ccagcgcca ccatgcgct caacagctcc gcccgggaa ccccgggcac gccggcgcc gaccttcc agcgggcgca ggccggactg gaggagcgc tgcggcccc ggcctcggc aacgctcgg gcaacgcgtc ggagcgcgtc ctggcggcac ccagcagcga gctggacgtg aacaccgaca tctactcca agtgcgtgtg accgcgtgt ggaagaagtc gctgcagagc ggcacggtg gcaacacggt gacggcttc acgctggcg ggaagaagtc gctgcagagc ctgcagagca cgggtgcatta ccacotggg agcctggcg tgcgcacct gctccctg ctgctggcca tgcctgtgga cctgtacaa tctatctgg tgcacctc cttggccttc ggcgacgcg gctgcgcgg ctactactc ctgcgcgac cctgcacota cgcacggcc ctcaacgtg ccagcctgag tgtggagcgc tacttgcca tctgcacct ctcaaggcc aagacctca tgtccggaag ccgcaccaag agttcata gcgcctctg gctgcctcg gccctgctga cgggtccctat gctgttacc atggcgagc agaaccgag cgcgcagcgc cagcacgcg cgggctggt gtgcacccc accatccaca ctgccacct caagtcgtc atacaggtca acacctcat gtcttcata tccccatgg tggtcactc ggtcctgaac accatcatg ccaacaagct gaccgtcatg gtacgccagg cggccgagca gggccaaagt tgacggtcg gggcgagca cagacattc agcatggcca tcgagcctg cagggtccag gccctgcgc acggcgtgc cgtctacgt gcatggta tcgcttctg ggtctgtg ctgccctacc acgtggcg cctcatgtc tgctacatc cggatgagca gtgactccg ttcctctatg acttctacca ctactctac atggtgacca acgcactctt ctacgtcagc	Homo sapiens

tccaccatca acccaatcct gtacaacctc gtctctgcca acttccgcca catcttctctg
gccacactgg cctgcctctg ccggtgtgtg cggtgcagga ggaagaggcc agccttctcg
aggaaggccg acaggtgtc cagcaaccac accctctcca gcaatgccac ccgcgagacg
ctgtactagg ctgtgagccc cggaaactgt ccaggaggag cctgggccatg ggtccttgcc
cccagacagc agagcagccc ccaccggga gctttagtg ggtcagga gaggccagcc
tgcactggag tctgaggcct gggaccccc cctccacc cctaaccat gtttctcatt
agtgtctccc gggcctgtcc ccaactctc cccaccctc cccatctcc tcttgaaaag
ccagaacaag agagcgtcc tctccagat aggaaggg cctctaaca ggagaaatta
gtgtcgggca aaggcagtt tctttgttc tcagactaat ggtggttcc agaaaggaa
atgaaatgtg ctgggtggg cgggcccctc ggcggcccgg ctgtgttcc catgtccaca
tctctgaggc ctgcacccc tctgtctagc tcggggagtc cagccccagt ccgcaggtc
ccgtggcttt gggcctcacg tgcagacct gccatgcaga cccatgccc cctcccccag
gcagctcaa gaaagtccc tgactcgcc cttcagcct ggaagctgg gggcccatcg
ccgtggggag tccctcccac caccctgcc gcagcagct gcagcccca gagggacca
caagcccaaa aaggacaaaa atgggtggc ctggaatggc ccagacccc gccctccc
ctccctccc tctcaccca ggcgaaggc cagggtctc gccaggacac cacatgggag
ggggtcagg cctcagcctc aagatcttca gctgtgctc ctcgggctcg gcagaaggga
cgccgatca gggcctgggt ctcagcacc tgcccagtg ccgtggcca ggtgggtg
cgacttcgt gtgtttgtg tgtagctgt caggctgag tctggagcca gcccagagc
tggcttcagg gtggggcctt gagaaggga atgtggaca gggcgatgg tgcctgtct
ctgagtaaga tgcaggtcc caggaactca ggttcaggt gaagaaggag ggtgtgtcca
ggcacgctg gccggcagc ctgggctgag gcacagact atttgtcac tctggcggc
ggcagcctg gcccgccct ccaagcagtt gaaaagctg ggcctcctt ggtctctagg
atccaggctc cacagagc atgactagc aggccttgg cttagaagg tgcctaaagc
ctaagagaag acagtcaccag gagaagctgg ccgggaccag ccaggagctg ggagccacag
gaagcaaaag tcagcctttt cttcaaggga ttccctgtc tcagagcagc ctttgcccc
gggaaatggg ctctgggctg gctgcctgca ccggccatgt cgaaccagga cccggacac
tggctctggg ctgtgttcag ccactttgcc ttctctggac tcagtctcc cgtctgagaa
atgagagtcg aatgtacag tatctgcagt cgtctggatc tggctgttga gttgacgggt
tcttgaacc ccacaaaatc cctctccac cacagacccc ttgggtctac caagaacggg
gcccagggga gtcaggccta ttgctgcac tctctgcaa actttgccc cacaagcctg
gtcatcagcc aggcagcct cccagtgcc aaggccacc accccagg aaacaggcc
agcacagagg ggccttcctc cccacagag ctcccatgac atagtctgt ctggcgga
gagcttctg gccagccag gatgtccaga ggtcgtgca gccctatcc ctgctcagga
gtgggtcag agtctagcaa atgctaagg ccctcaggtt ggtcctgaa cgaggacctg
gactcagagc cagacaggc agcctcagac ccttctctgg ggtcctgga ccttgggcca
taatttctga gcctcggttt cccatctaa ggaacagatg tggctgttcc gccctctcag
ctggatgaga ctgtcctgga ggtccacc ccgaacagac agaaggtgt cctcaggat
ggtgtctga gaggggag agtggatgcc ccactgcct agaccctcg tagactgtg
gtctctggg cgggtctgt ggtgtgact gaagtgggt tcccggtga tgtctgtg
ctctatctg tgcattacc gtaggtagg acagtgtcc atgcaccaca gacacacca

207	Neurotensin Receptor Type 1	NP_002522.1	<p>cgacacctga tctcgtatca ctagcttgccg gccaggtcat gatgtggccc cggaagctgg ccctggctgc catgagtgcg tcggtcatgg agtcggagc cctgagccg gccctgggtg acggcacagc cctcacagct caaacgccc ccccaactcc caccatctgc agtggtgaa aacaacccc gtgtatctct caataaaggt ggccgaagg cctcgatgtg g MRLNSSAPGT PGTPAADPFQ RAQAGLEAL LAPGFNASG NASERVLAAP SSELVDNNTDI P YSKVLVTAVY LALFVVGTVG NTVTAFTLAR KKSLSQLOST VHYHLGSLAL SDLLTLLAM PVELYNFIWV HHPWAFGDAG CRGYFFLRDA CTYATALNVA SLSVERYLAI CHPFKAKILM SRSRTKKFIS AJWLASALLT VPMLFTMGEQ NRSADQHGAG GLVCTPTIHT ATVKVVIQVN TFMSFIIPMV VISVLNTIIA NKLTVMVRQA AEQGOVCTVG GEHSTFSMAI EPGRVQALRH GVRVLRVAVI AFVVCWLPYH VRRLMFCYIS DEQWPPFLYD FYHYFMYVTN ALFYVSSSTIN PILYNLVSAN FRHIFLATLA CLCPVWRRRR KRPAFSRKAD SVSSNHTLSS NATRETLV</p>	Homo sapiens
208	Opiate Receptor- Like 1 (OPRL1)	NM_000913	<p>cctgctctgc acctgtcgtc gactgcccgc cggctgaggg cggggggtctc cacggtggtc A ccagctccca aggaggttgc agaagtaccg tacagagtgg atttgacagg cagtggcatg gagccctctc tcccgcgcc gttctgggag gttatctacg gcagccacct tcagggcaac ctgtccctcc tgagccccc cccaggtctg ctgccccgc atctgctgct caatgccagc cacggcgccct tctgcccc gggctcaag gtccaccatg tggggctcta cctggccgtg tgtgtcggag ggctcctggg gaactgctt gtcatgtacg tcatcctcag gcacacaaa atgaagacag ccaccaatat ttacatctt aaactggccc tggccgacac tctggtcctg ctgacgctgc ccttcaggg caggacatc ctccctgggt tctggccgtt- tgggaatggc ctgtgcaaga cagtcatgac caggactac tacaacatgt tcaccagcac cttcacccca actgccatga gtgtggatcg ctatgtagcc atctgccacc ccatccgtgc cctcgacgtc cgcaagtcga gaaagccca ggctgtcaat gtggccatct gggccctggc ctctgtgtgc gggtgtcccg ttgccatcat gggtcggga caggtcgagg atgaagagat cgagtgcctg gtggagatcc ctaccctca ggtactactg ggcccggtgt ttgccatctg catctctc ttctccttca tgttccccgt gctcgtcatc tctgtctgct acagcctcat gatccggcgg ctccgtggag tccgctgct ctggggtccc cgagagaagg accggaacct gcggcgcatc actcggctgg tgctggtgtt agtggctgtg ttctgtgggt gctggacgcc tgtccaggtc ttcgtgctgg cccaagggtt gggggttcag ccgagcagcg agactgcctg ggcattctg cgcttctgca cggccctggg ctacgtcaac agctgcctca acccctctc ctacgccttc ctggatgaga acttcaaggc ctgctcccgc agttctgct gtgcattctg cctgcgcctg gacgtgcagg tgtctgaccg cgtgcgcagc atgtccaagg acgtggccct ggcctgcaag acctctgaga cgggtaccgc gcccctatga ctaggcgtgg acctgcccct ggtgcctgtc agcccgcaaga gcccatctac gccaacaca gagctcacac aggtcactgc tcttagggc gacacacctt gggccctgag cctcagagc ctgggatggg cttttccctg tgggccaggg atgctcgtgc ccagagaggg acctagtac atcatgggac aggtcaaaag attagggcca cctccatggc ccagagaga ctaagctgc cctcctgggt gagggcctg tactggagcc cgtgcccc gacctacctg gaagcagctg acatgctggt ggacggcctt cactggagcc accctgggt cctccccgtg cttcatgtga cttctggcct ctctgctgct gctgtggcag aacctgggt gggcaggcac ccggaggagg agcagcagct gtgtcactct gtgccccca tgtgctgtgt gctgtttgca tggcagggtt ccagctgcct tcagccctgt gacgtctcct caggcagct ggacaggctt ggcacggccc ggggaagtga gcaggcagct tttctttggg ggggacttg</p>	Homo sapiens

209	3452	Opiate Receptor- Like 1 (OPRL1)	NP_000904.1	<p>ccctgagctt ggagctgcca cctggaggac ttgctgttcc cgactccacc tgtgcagccg gggccacccc aggagaaagt gtccaggtag gggtggcag tccctggctg cagaccccga gtggccctc ggaccgcacc tctgaaggtt ttctgtgtgc tgcacgggtg aggcctcacc cctgactgca gcttgactct ggcccacacc ccatttccc ttccaggagac cagcgagagg ccctggccat cctccagcg gtgcaatgaa ctatatgctg tggaccgtca acccagccct gcttctcagt gtggggcagg tgtctcagg cgaaggccg cgtgaccac atgggcagct ctgttcacaa agtggaggcc tegttttctt ggtcttgact gctctgtttg ggtggagaa gattctctgg gggtcccccac atcctcccaa ggctccctc acagctctc ctttgcttga agccagaggt cagtggccgt gctgtgttc gggaagctg tttggaaggaa gaagctggtg gccacagcag agtctctgct tggggacgac tgcctcattt acaagcctca agatgctct gtgtagggcc tgaagcttgc tgggaacgag aggatggctt cacagcagag ccagcatgag gggtggggcc tggcagggtc tgcctgagcc aaactgcaaa ggctgtggtg gctgtgagga cactgcgggg gttg</p>	Homo sapiens
210	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NM_000273	<p>atgacccagg caggccggcg gggtctctggc acaccgagc cgcgtccgag aacacagccc A atggctccc cgcgcctagg gaccttctgc tgcceccagc gggacgcagc cagcagctc gtgctgagct tccagccgag ggcttccac ggcctctgac tgggcagcgg cgggtccgac ttggcgctgg gccttctgca gctgctgcc ggcgcggcgc cgcgcggccc cgggtccccc ggacgctcc cgcgggctc ggctccgcat ctgcgcgctg cgcgtgcctg cgaccttctc ggctgcctgg gtatggtgat cgcgtccacc gtgtggttag gattcccaaa tttgttgac agcgtctcgg atatgaacca cagcgaattt tggcctgctg cttctgcgt ggggagtgcg atgtggatcc agctgttcta cagtgcctgc ttctggtggc tgttttcta tgcagtggat gcttatctgg tgatccggag atcggcagga ctgagcaca tctgctgta tcacatcatg gcgtggggcc tggccacct gctctgtgtg gaggagccg ccatgctcta ctaccttc gtgtccaggt gtgagcgggg cctggaccac gccatcccc actatgtcac catgtacctg ccctgctgc tgggtctcgt ggcaacccc atcctgttcc aaagacagt gactgcagtg gcctctttac ttaagggaag caaaggcatt tacacggaga acgagaggag gatggagcc gtgatcaaga tccgattttt caaatcatg ctggttttaa ttattgttg gttgtcgaaat atcatcaatg aaagcctttt attctatctt gagatgcaaa cagatatcaa tggaggttct ttgaacacctg tcagaactgc agccaagacc acatggttta ttatgggaat cctgaatcca gcccagggat ttctctgtc ttggccttc tacggctgga caggatgcag cctgggtttt cagtctccca ggaaggagat ccatgggaa tcaactgacca cctcggctgc tgaggggct caccatccc cactgatgcc ccatgaaaac cctgcttccg ggaaggtgtc tcaagtgggt gggcagactt ctgacgaagc cctgagcatg ctgtctgaag gtctgtatgc cagacaatt gaaattcaca ctgcaagtga atcctgcaac aaaaatgagg gtgacctgc tctcccaacc</p>	Homo sapiens

211	3513	Ocular Albinism 1 (Nettleship- Falls) (OAL)	NP_000264.1	catggagacc tatgaagggg atgtgctggt ggtccagacc ccattatcct cagactcaac aattcttggt ctttagaact gtgttctcac cttcccaaca ctgcactgcc gaagtgtagc ggcccccaaa ccttgctctc atcacacgct agagcttctt ccgaagggc ctttaggata ggagaaaggg ttcattgcaca cactgtgtgag aatggaagag cccctccag accactctac agctgctcta gcttagttg ccaataggaa gtttctgag gctgctgta aagtaagtgt aaggtcacca tccctgggga agtagttaaa taaaatagtt atgactg LALGLLQLLP GRRPRPTQP MASPRLTFC CPTDRDATQL VLSQPRAFH ALCLSGGGLR P SVSDMNHTEI WPAAFVGS A MWIQLLYSAC FWLFCYADV AYLVIRRSAG LSTILLYHIM AWGLATLLCV EGAAMLYPS VSRCEGLDH AIPHYVTMYL PLLLVLVANP ILFQKTVTAV ASLLKGRQGI YTENERMGA VIKIRFEKIM LVLIICWLSN IINESLLFYL EMQTDINGGS LKPVRTAAKT TWFIMGILNP AOGFLLSLAF YGWTGCSLGF QSPRKEIQWE SLTTSAAEGA HPSPIMPHEN PASGKVSQVG QOTSDEALSM LSEGSDASTI EIHTASESCN KNEGDPALPT HGDL	Homo sapiens
212	3544	UDP-glucose Receptor (KIAA0001)	NM_014879	gaacagtgtt acctggagc ctacaatgag aggtatttca aatgagtgga agcatgactc A tcacagatga aggcctagac gcaggatctt taatggaaaa acacttgggc cacttcaaga cgacaaacgc tcaactggga aaacaccttc actgaaaaa gactcatat tatgaaaaa aaatcttaag aggcctctgc cttcagaagt tacaagatga tcaattcaac ctcacacag ctccagatg aatcctgctc tcagaaacctc ctgatcactc agcagatcat tccgtgctg tactgtatgg tcttcattgc gggaatccta ctcaatggag tgcaggatg gatattctt tacgtgcccc gctctaagag ttcatcacc tatctcaaga acattgttat tctgacttt gtgatgagcc tgaactttcc ttccaagatc cttggtgact caggccttgg tccctggcag ctgaacgtgt ttgtgtgcag ggtctctgcc gtgctcttct acgtcaacat gtacgtcagc attgtgttct ttgggctcat cagctttgac aggtattata aaattgtaaa gcctctttgg actcttttca tccagtcatg gattacacg aaacttctgt cagtgatagt atggatgctc atgctctccc ttgctgttcc aaatattatt ctcaccaacc agagtgttag ggaggttaca caaataaaat gtatagaact gaaaagtga ctgggacgga agtggcacaa agcatcaaac tacatcttcg tggccatctt ctggattgtg ttcttttgt taatcgtttt ctatactgt atcacaaaaa aaatctttta gtcccacott aagtcaagtc ggaattccac ttcggtcaaa aagaaatcta gcgcaacat attcagcatc gtgtttgtgt tttttgtctg ttttgtacct taccatattg ccagaatccc ctacacaaag agtcagaccg aagctcata cagctgccag tcaaaagaaa tcttgcggtat tatgaaagaa ttcaactcgc tactatctgc tgcaaatgta tgcttgagcc ctattattta ttctttcta tgcagccgt ttagggaat cttatgtaag aaatgcaca ttccattaaa agctcagaat gactagaca ttccagaat caaagagga aatacaaac ttgaaagcac agatactttg tgagttccta cctcttcca aagaaagacc acgtgtgcat gttgtcatct tcaattacat aacagaaatc aataagatat gtgccctcat cataaatatc atctctagca ctgccatcca atttagttca ataaaattca aatataagtt tccatgcttt ttgttaacat caaagaaac ataccatca gtaatttctc taatactgac ctttctattc tctattaata aaaaattaat acatacaatt attcaattct attatataa aataagttaa agttataac cactagtctg gtcagttaat gtgaaattt aaatagtaaa taaacacaaa cataatcaaa gacaactcac tcaggcatct tctttctcta aataccagaa	Homo sapiens

Gene	Accession	Protein	Species
213	3544	UDP-glucose Receptor (KIAA0001)	Homo sapiens
214	3582	Oxytocin Receptor	Homo sapiens

atcgtgctcg ctacctgcta cggccttata agcttcaaga tctggcagaa cttgcggctc
aagaccgtg cagcggcggc ggccgaggcg ccagagggcg cggcggctgg cgatggggg
cgcgtggccc tggcgcgtgt cagcagcgtc aagctcatct ccaaggccaa gatccgcacg
gtcaagatga cttcatcat cgtgctggcc ttcacgtgt gctggacgc tttcttcttc
gtcagatgt ggagcgtctg ggatgccaac gcgcccaagg aagcctcggc cttcatcatc
gtcatgtccc tggccagcct caacagctgc ggtactacat gctgttcacg gctgttcacg
ggccacctct tccacgaact cgtgcagcgc ttcctgtgct gctcggccag ctacctgaag
ggcagacgcc tgggagagac gagtgccagc aaaaagaca actcgtccct ctttgtcctg
agccatcgca gctccagcca gaggagctgc tcccagccat ccacggcgtg acccaccagc
caggccagg gctgcagcct gaggctcagg ctgtcctggc ataagtgtc tgctcctagg
tgatggcgta tgtttgtgta taaggtaacct atcagtttgt atcctcccc tcttgggg
ggcttcagtg ggggtggagag tggcctccat gatggaagat gataggggac tcagccatca
gacaacaccc tggcctccta cactacttc taccacctg aacctactg tgcctgggc
agtgaagtgc ttgtttttc tctggacct gtaatttcac tccagtatat ttttacttct
tcattctggg atattgtga aagcggtaaa tataggattg tggaccaatt gggtcaggaa
gtccagtgtt ttggacttgg ggtaagcagt ggggttggga cctcagatgg gaagggtgg
gtcaagatcc tctgacctc aaagtgtatt tgccttaag cgaacaaatg ctggggtcct
tggggaccag cttgtcagag ggtagcccta agagaagggg attaccttgt aagaccatct
ggcgcagtgg acctattaga acttgggtta aaatgttta agaagctaat gtttaagaag
catttggaa agaaaaagaa ataatgtat ccagatagga aaagaagaag taaaactatt
tgcagatgac acagtttgt atatagaata tcctaaggaa ctcacacaca cacacacaca
cacacacgca cacagctatt agaactaata agcaagttcc goaagtttc agatacaga
atcaatatac aaaaatgaat tgtatttctt tatactagca acaacaata tgaaacgaa
gttaataat tccatttata ataccatcag aagaataaa ataggaaatca acttaacaaa
acaagtgcga gactgaaaac tacaaaattg gaaagaaatt aaagaaggct taaataaatg
gaaagacatc ctgtgttcat ggatcagact tagtattgtt aagatggcaa tactatccta
actgacatgc agattcagtg caatccttat gaaaatcata cttggctttt ttacagaaat
tgataagcta gtcccaaaat tcataaagaa atgcaaggga ccagatatc caaataagcc
ttgaaaaaga acaaaagtgg tggattcaca cttcctgatt tcataattta cgataaaggt
aatcagctca gtgtgttact ggtttaaagg tagacatacg gagcagaata aagagtacag
atatgaacac ttatacttac ggtcaattga ttttgacaa ggttcccaag acaattcaat
agagaaagga gagtctttc acaaaatggc accgagacaa tgatatgcaa gtgcaaaaga
atgagggttg acctttact acactatgtg caaaatcaa ctcaaaacgc atccaagatc
taaatataag agctgaaact ataaaatctt agaaagaac ataggcatag atctttgtta
ccttgaatta ggcagtggtt tcttagatat gataccaaag acacaagcaa ccaatggaaa
aatagggtaaa ttggacttga tcaagatttg aagcttttgt gattgaaaag accctatcaa
gaaggtgaaa agataacctg cagaatggga gaaaatattt gcgagtcata tatatgata
ggggttgta tctggaatat ataaaact cttataacac acaataaagg agaaaaataa
atcaatttaa aaaaatggct aacggttga atagacattt ctccaaagaa gatatgcaa
tggctactaa gcacatgaaa aatactcaac attattattc attagggaaa tgcaagtcaa
aatcacaatg agattccagt ttacaatcac taggatggct acaataaaaa gatggacaag

215	3582	Oxytocin Receptor	NP_000907.1	<p>aacgagtgtc ggtgaggatg tagagaaact gtagaaatt taattgttg gtgggaatgt aatgtgtgca cctgctttga aaaacagttt ggcagtacct caaaaagttt aacgtagagt gaccatata cccaggaatg ccaactcctag gtattaccc aagagaaatg aaaacgtaca tacacacaaa aacttgtaca ccaatgttca tagcaacatt atttgaata gccaaaagt ggaacaacc caatgtcta ccaactgatg aatgggaaat aaaatgtggt ctgtccacgc aatggaacat tattagatct taaaaagaaa tgaagtact acacatgcca caacatggat gagccttgaa aacttgctaa gtgaaagag caggtgcaa agcccacat attgtctgac tgcattgaaa tgcaatgtct aaaaaggag caactatata gagtgaatat agattagcgt ttgccagggc ctggaggctg tgagagatga ggcatactga ctaagggttt ggggtttctt tttcgggtga tgaataatgtt cgaatttagt ggtgattgtg cagcattttg agaattgact aaaaaccaat gaactttaaa aaataaaat aaacaaa</p> <p>MEGALAANWS AEAANASAP PGAENRTAG PPRNEALAR VEVAVLCIL LLALSGNACV P LLALRTRQK HSRLEFFMKH LSIADLVAV FQVLPQLWD ITRFYGPDL LCRLVKYLQV VGMEASTYLL LMSLDRLA ICQPLRLRR RTDRLAVLAT WLGLVASAP QVHIFSLREV ADGVFDCWAV FIQWGPVKAY ITWITLAVI VPVIVLATCY GLISFKIWQN LRLKTAASAA AEAPGAAAG DGRVALARV SSVKLISKAK IRTVKMTFII VLAFIVCWT PFFFQMWVSW DANAPKEASA FIIVMLLASL NSCCNPWIYM LFTGHLFHEL VQRFLLCCSAS YLKGRLGET SASKNSSS FVLSHRSSSQ RSCSQPSTA</p>	Homo sapiens
216	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NM_002564	<p>cggcacgagg caccocgaga ggagaagcg agcgagtg cgagaggagc ccctgtggc A agcagcacta cctgcccaga aaaatgctgg aggtggggc tgggcccagg cctggggacc tggttttctt gtttccgca gattccctg cagccggctc caggtccagg cgtgtgcatt catgagttag gaaccctgc agcgctgag cactctgac tggagagcag gggctggtca gggagatggc agcagacctg ggcctctgga atgacacct caatggcacc tgggatgggg atgagctggg ctacaggtgc cgcttcaacg aggaactcaa gtacgtgctg ctgcctgtgt cctacggcgt ggtgtgcgtg cttgggctgt gtctgaacgc cgtggcgctc tacatctct tgtgccgctt caagacctgg atgcgtcca ccaatataat gtccacctg gctgtgtctg atgcactgta tgcggcctcc tgccgctgc tggctctatta ctacgcccgc ggcgacct ggcccttcag caggtgtctc tgcaagctgg tgcccttctt cttctacacc aaccttact gcagcatcct ctctctcacc tgcatcagcg tgcaacgggtg tctggcgctc ttacgacctc tgccctccct gcgctggggc cgggcccgct acgctcgccg ggtggccggg gccgtgtggg tgttgggtgt ggcctgccag gcccccgctc tctactttgt caccaccagc gcgcggggg gcgcgtaac ctgccaacgac acctcgccac ccgagctctt cagccgcttc gtggcctaca gtcagtcctat gctgggcttg ctcttcgctg tgccctttgc cgtcctctt gtctgttacg tgtctatggc tcggcgactg ctaaagccag cctacgggac ctggggcgcc cctccatagg ccaagcgcaa gtccgtgccc accatcgccg tgggtgtggc tgtcttcgcc ctctgcttcc tgccattcca cgtcaccgc acctctact acctctccg ctccgtggac ctcagctgcc acacctcaa cggcataaac atggcctaca aggttaccgc gccgtggcc agtgctaaca gttgccctga ccccgctcct tactctctgg ctgggcagag gctcgtacgc ttgcccag atgccaaagc acccactggc cccagccctg ccaccccgcc tcgcccagc ctggcctg gcagatccga cagaactgac atgcagagga taggagatgt gttgggcagc agtgaggact tcaggcgac agagtccacg ccggctggta gcgagaacac taaggacatt cggctgtagg</p>	Homo sapiens

217	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	NP_002555.1	agcagaacac ttcagcctgt gcaggtttat attggaagc ttagaggac caggacttgt gcagacgcca cagtctccc agatatggac catcagtgac toatgctgga tgaccccatg ctccgtcatt tgacaggggc tcagatatatt cactctgtgg tcacagagta actgttccca taacccttag tcatcgtttg tgtgtataag ttgggggaat taagtttcaa gaaaggcaag agctcaaggt caatgacacc cctggcctga ctcccatgca agtagctggc tgtactgcca aggtacctag gttggagtc agcctaata agtcaaatgg agaacacagg ccagagagga aggtggctta ccaagatcac ataccagagt ctggagctga gctacctggg gtgggggcca agtcacaggt tggccagaaa accctggttaa gtaatgaggg ctgagtttgc acagtggctt ggaatggact ggtggccacg gtggacttag ctctgaggag taccctccag ccaagagatg aacatctggg gactaatatc atagacccat ctggaggctc ceatgggcta ggagcagtgt gagctgtgtaa cttatactaa aggttgtgtt gcctgctaaa aaaa MAADLGPWND TINGTWGDE LGYRCRNED FKYLIPVSY GVVVLGLCL NAVALYIFLC P RLKTNASTT YMEHLAVSDA LYAASLPLV YYYARGDHP FSTVLCKLVR FLYTNLYCS ILFTICISVH RCLGLRPLR SLRWGRARYA RRVAGAWVL VLACQAPVLY FVTSARGGR VTCHDTSAPL LFSRFVAYSS VMLGLLFAVP FAVILVCYVL MARRLLKPAY GTSGLPRAK RKSVRTIAV LAVEALCFPL FHVTRTLXYS FRSLDLSCHT LNAINMAYKV TRPLASANSC LDPVLYFLAG QRLVRFARDA KPPTGPSPAT PARRRLGLRR SDRTDMQRIG DVLGSSEDFR RTESTPAGSE NTKDIRL	Homo sapiens
218	3595	Purinergic Receptor P2Y1	NM_002563	ccccctccc cggggctcca gttcgccctgc tccctccgc tcgctggctt ttccgatgct A tgctgcgccc ctggccgcgc ctgcccctctc gcgcctctct accctctgga gccgcgcct aagtcgagga ggagagaaatg accgaggtgc tgtggccggc tgtccccaac gggacgggacg ctgcctctct ggcgggtccg ggttcgtcct gggggaacag caggtgcgc tccactgcg ccgtctctc tcggttcaaa tgcgcctga ccaagacggg ctccagttt tactacctgc cggctgtcta catcttgta ttcatcatcg gcttctggg caacagcgtg gccatctgga tgttctctt ccacatgaag ccctggagcg gcatctcct gtacatgttc aatttgctc tgcccgactt ctgtactgtg ctgactctgc cagccctgat cttctactac ttcaataaaa cagactggat cttcggggat gccatgtgta aactgcagag gttcatcttt catgtgaacc tctatggcag catcttggtt ctgacatgca tcagtgccta ccggtacagc ggtgtggtgt acccctcaa gtccctgggc cggctcaaaa agaagaatgc gatctgtatc agcgtgtggtg tgtggctcat tgtgtgtgtg gcgactctcc ccatctctt ctactcaggt accggggtcc gcaaaaaca aacctacc tgttacgaca ccactcaga cgagtacctg cgaagttatt tcatctacag catgtgcac accgtggcca tgttctgtgt ccccttggtg ctgattctgg gctgttacgg attaattgtg agagctttga tttaaaaga totggacaac tctcctctga ggagaaaaatc gatttacctg gtaateattg tactgactgt ttttgcgtg tcttacatcc ctttccatgt gatgaaaaac atgaacttga gggcccggtt tgattttcag accccagcaa tgtgtgcttt caatgacagg gtttatgcca cgtatcaggt gacaagaggt ctagcaagtc tcaacagttg tbtggacccc attctctatt tcttggcggg agatactttc agaaggagac tctccgagc cacaaggaaa gcttctagaa gaagtggagg aaatttgcaa tccaagagtg aagacatgac cctcaatatt ttactagat ttgagatgaa tggagatata agcctgtgaa ggcacaagaa tctccaaaca cctctctgtt gtaatatggt aggatgctta acagaatcaa gtacttttcc cctctttaac ttctagtgtt agaaaaaaat caaaccaaga aaatagttag	Homo sapiens

219	3595	Purinergic Receptor P2Y1	NP_002554.1	<p> ttaaataaat aatagaagta gaaatgccc catccacact tagcttggtt gggtttgctt tcacagtctc tcttcttctt gactagaagt atgtataata aacaatact acctagttaa acatttactt tctcttttgc ctttaaaatg tgcagggttt tctgttttaa gtgtgtgtgc acatgagtac tggggctgtt tttagatatta gtaattctc taagaaaact agccccctgc aacttgagtt tgtggtttat ctagccttta ttgtttttt aaatccaca gtaggataaa aaaatcata ttctcagaaa tatctagcat ggtataaac aaacactaa actcatcagt tcatccggca tcagatcaat ggtctctga gggggtgtt ttttcagt tcttataagc atagatgata gttgactgag ttctcttagg gcattgaata gacaagtaaa gctaataaat ttaaagcct gaaaagtgat tgtttccag tttttctg aaaaggtctc attatatatt gggtgctaaa tgtttgatgg ggaagcctg catatatatt cgtactgga aaatgcattc aaaataatta aagtgcattg atttccctg taacacacct gagctctctt agacatcttg tgataaagag catttacttg cccactgct gtgcaatgcc ttaggacttt gttgtgttc caggacaagt gttcactcac atctgtaaaa caattttaa gaattgcaaa taaattacag accaaagatt ggtaaagtc aaataactgt tagtaagtgt aagatatatt gacaggagga cagtatttca gaaaaggaga ggttgacagt catccacaag gcatagcctc caagtatact ctcaaatgta tgaagcaact ggggtgggca gaagacattt tagaatgagg gcctttagtt taaattaaag tcatggtgga gaagactctt gctccacca agtgtttgaa aacacaaaat acgatataaa aaaaaaaaaa aaaa cagatataaa aaaaaaaaaa aaaa MTEVLPAPV NP_002554.1 MTEVLPAPV NP_002554.1 MTEVLPAPV NP_002554.1 VFIIGFLGNS VAIWMFVFM KPWSGISVYM ENLADFLY VITLPALIFY YFNKTDWIFG DAMCKLQREI FHNLYGSIL FLTCISAHRY SGVYPLKSL GRIKKNAIC ISVLWLVV VAISPILFYS GTGVRKNKTI TCYDTSDEY LRSFYISMV TTVAMFCVPL VLILGCYGLI VRALIYKDLD NSPLRRKSIY LVIIVLVFA VSIYFHVMM TMNLRLRDF QTPAMCAFND RVYATYQVTR GLASLNSCVD PILYFLAGDT FRRRLSRATR KASRRSEANL QSKSEDMTLN ILPBFKQNGD TSL </p>	Homo sapiens
220	3596	Purinergic Receptor P2Y5	NM_005767	<p> ctgatgaaag tgcttccaaa ctgaaaattg gactgcctt tacgatggta agcgttaaca A gctcccactg cttctataat gactccttta agtacacttt gtatgggtgc atgttcagca tggtgtttgt gcttggttga gtatccaatt gtgttgccat atacattttc atctgctcc tcaaggtccg aatgaaact acaacttaca tgattaaact ggcaatgta gacttgcttt ttgtttttac ttacccttc aggatttttt acttcacaac acggaattgg ccattggag attactttg taagatttct gtgatgctgt ttataccata catgtacgga agcattctgt tcttaacctg tattagtga gatgatctt tggaattgt ctaccattt aagtcacaaga ctctaagaac caaaagaaat gcaagattg ttgcactgg cgtgtggta actgtgatcg gaggaaagtc accgcgctt ttgttccagt ctaccactc tcagggtaac aatgcctcag aagcctgctt tgaataattt ccagagcca tttttattc ctctaattt aaatgtaact tgtctagta ttttcatcga aatagtggga tttttattc ctctaattt aaatgtaact tgtctagta tggtgctaaa aactttaacc aaacagttta cattaagtag aagcaaaaa acaaaaacta aggtttttaa atgattttt gtacatttga tcataattgt tttctgtttt gttccttaca atatcaatct tattttatat tctctgtga gaacacaaac atttgtaatt tgctcagtag tggcagcagt aaggacaatg tacccaatca ctctctgat ttgtgtttcc aactgtgtt ttgacctat agttactac ttatcatcgg acacaattca gaattcaata aaatgaaaa </p>	Homo sapiens

221	3596	Purinergic Receptor P2Y5	NP_005758.1	actggtctgt caggagaagt gacttcagat tctctgaagt tcatggtgca gagaatttta ttcagcataa cctacagacc ttaaaaaagta agatatttga caatgaatct gctgcctgaa ataaaacat taggactcac tgggacagaa ctttcaag MSDLLEFVFTL YNDSFKYTL GCMFSMVFL GLVSNCAIY IFICVLKVRN ETTYMINLA P PFKSTLRTK RNAKIVCTGV WLTVIGSAP AVFQSTHSQ GNNASEACFE NFPEATWKTY LSRVIFIEI VGEFPLILN VTCSSMVLKT LTKPVTLSRS KINKTKVLKM IFVHLIIFCF CFVPYNINLI LYSIVRTQTF VNCSSVAAVR TMYPTLCLIA VSNCCFDPIV YYFTSDTIQN SIKMNWSVR RSDRFSEVH GAENFIQHNL QTLKSKIFDN ESAA aaggacagag gaggggccct tcctgtcagc tggctgggag cagaggtggc tttgtctttt A cggagaact ggttctgtgg aatttctgct tatttcccat caagatcaa ggacctgctc tggggtacc tgaaggccc acaggatgag gggctgggtt tcagatgagt ttctgtctg cctgtcatct ggatagtgtc taaaaatttg caaactgctt tcttgtcagt gtcttgtctc ttcttcata cactcctgat atgtctctca gtttctctat ctgtgcttc tccagacttc tgccagaaca ttgcacgca cagtttcagg cacagaactg actggcagca ggggtgctc cacgagtgg aatttgctcc agcacttcac ggactgcaag cgaaggcactt gctaaactct ggataacaag acctctgcca gaagaacct tgccttggaa ggcggagttc aggtgagga gatgggtgag gatacaatgg acagggcagg ctctgggctt gccaccacc acctgtgtct ccatggaaatg gtaaaatggc agagggcagg ctctgggctt gccaccacc acctgtgtct accgcgagaa cttaagcaaa ctgctgctgc cactctgta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agatctgtcac gtcccgcgg gccctgacc gcacggccgt gtacacctc aacctgtctc tggctgacct gctatatgcc tgcctcctgc ccctgtctat ctacaaactat gccaaagggtg atcaatggcc ctttggcgac ttcgcttgc gcctgttccg cttcctcttc tatgccaacc tgacggcag cactccttc ctcacctgca tcagcttcca gcgtacctg ggcatctgcc accgctggc cccctggcac aaagtgggg gcgcccggc tgcctggcta gtgtgtgtag ccgtgtggt gccgtgaca acccagtgcc tgcccacagc catcttctgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc tcagcccgc tgccttggc acctata tgcctatgg catggctctc actgteatcg gcttctctgt gcccttctgt gccctgtgg cctgtactg tctcctggcc tgcgctgtg gcgcccagga tggcccggca gacctgtgg ccagaggagc gcgtggcag gcggccgca tggcgtggt ggtggctgt gcccttggca tcaagcttct gccctttcac atcccaaga cagctacct ggcagtgcg tcgacggcg gcgtccctg cactgtattg gaggccttg cagggccta caaaggcacg cggcgttgg ccaagtcca cagctgtctg gacctatcc tcttctact caccagaag agttccgccc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagaggcag ggtcgtctg tctcctcagg cctgggcagc cttcatatt gccatttgt ccggggcacc aggagcccca ccaaccccaa accatgcgga gaattagagt tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaaact atttcttcag ccccttctct ggcacagacc ctgtgggcat ggagatggac agacctgggc ctggctcttg agaggtccca gtcagccatg gagagctgg gaaaccacat taagtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens
222	3597	Purinergic Receptor P2Y6	NM_004154	aaggacagag gaggggccct tcctgtcagc tggctgggag cagaggtggc tttgtctttt A cggagaact ggttctgtgg aatttctgct tatttcccat caagatcaa ggacctgctc tggggtacc tgaaggccc acaggatgag gggctgggtt tcagatgagt ttctgtctg cctgtcatct ggatagtgtc taaaaatttg caaactgctt tcttgtcagt gtcttgtctc ttcttcata cactcctgat atgtctctca gtttctctat ctgtgcttc tccagacttc tgccagaaca ttgcacgca cagtttcagg cacagaactg actggcagca ggggtgctc cacgagtgg aatttgctcc agcacttcac ggactgcaag cgaaggcactt gctaaactct ggataacaag acctctgcca gaagaacct tgccttggaa ggcggagttc aggtgagga gatgggtgag gatacaatgg acagggcagg ctctgggctt gccaccacc acctgtgtct ccatggaaatg gtaaaatggc agagggcagg ctctgggctt gccaccacc acctgtgtct accgcgagaa cttaagcaaa ctgctgctgc cactctgta ttcggcggtg ctggcggtg gctgcccgt gaacatctgt gtcattacc agatctgtcac gtcccgcgg gccctgacc gcacggccgt gtacacctc aacctgtctc tggctgacct gctatatgcc tgcctcctgc ccctgtctat ctacaaactat gccaaagggtg atcaatggcc ctttggcgac ttcgcttgc gcctgttccg cttcctcttc tatgccaacc tgacggcag cactccttc ctcacctgca tcagcttcca gcgtacctg ggcatctgcc accgctggc cccctggcac aaagtgggg gcgcccggc tgcctggcta gtgtgtgtag ccgtgtggt gccgtgaca acccagtgcc tgcccacagc catcttctgt gccacaggca tccagcgtaa ccgcactgtc tgctatgacc tcagcccgc tgccttggc acctata tgcctatgg catggctctc actgteatcg gcttctctgt gcccttctgt gccctgtgg cctgtactg tctcctggcc tgcgctgtg gcgcccagga tggcccggca gacctgtgg ccagaggagc gcgtggcag gcggccgca tggcgtggt ggtggctgt gcccttggca tcaagcttct gccctttcac atcccaaga cagctacct ggcagtgcg tcgacggcg gcgtccctg cactgtattg gaggccttg cagggccta caaaggcacg cggcgttgg ccaagtcca cagctgtctg gacctatcc tcttctact caccagaag agttccgccc ggcgaccaca tgagctccta cagaaactca cagccaaatg gcagaggcag ggtcgtctg tctcctcagg cctgggcagc cttcatatt gccatttgt ccggggcacc aggagcccca ccaaccccaa accatgcgga gaattagagt tcagctcagc tgggcatgga gtaagatcc ctacaggac ccagaagctc accaaaaact atttcttcag ccccttctct ggcacagacc ctgtgggcat ggagatggac agacctgggc ctggctcttg agaggtccca gtcagccatg gagagctgg gaaaccacat taagtgctc acaaaaatac agtgtgacgt gtactgtcaa aa	Homo sapiens

223	3597	Purinergic Receptor P2Y6	NP_004145.1	MEWDNGTQQA LGLPPTTCVY RENFKQLLLP PVSVAVLAAG LPLNICVITQ ICTSRRALTR P TAVYTLNLAL ADILYACSLP LLIYNYAQGD HWPFGDFACR LVRFIFYANL HGSILFLTCL SFQYILGICH PLAPWHKRGG RRAAWLVCVA VWLAVTTQCL PTAIFAATGI QNRNRTVCYDL SPPALATHYM PYGMALTVIG FLPLPFAALLA CYCLILACRLC QDGGPAEPVA QERRGKAARM AVVVAFAAI SELPFHITKT AYLAVRSTPG VPCTVLEAFA AAYKGTRPEA SANSVLDPIIL FYFTQKKFRR RPHELLQKLT AKWQRQGR	Homo sapiens
224	3599	G Protein- Coupled Receptor 23 (GPR23)	NM_005296	cctaccgggc catagtgtca gattgggtgaa ccctgcagc cagcaggcct cctgaaaaaa A aagtcacatgg gtgacagaag attcattgac ttccaattcc aagattcaaa ttcaagcctc agaccaggt tgggcaatgc tactgccaat aatacttgca ttgttgatga ttccctcaag tataatctca atgggtgctgt ctacagtgtt gtatctatct tgggtctgat aaccaacagt gtctctctgt ttgtctcttg ttccgcgatg aaaaatgagaa gtgagactgc tatttttatc accaatctag ctgtctctga ttgtcttttt gtctgtacac taccttttaa aatatattac aacttcaacc gccactggcc ttttgggtgac accctctgca agatctctgg aactgcattc cttaccaca tctatgggag catgctcttt ctcaactgta ttagtgtgga tcgtttctctg gccattgtct atccttttgc atctcgtact attaggacta ggaggaaattc tgccattgtg tgtgctgggt tctggatcct agtcctcagt ggcggtattt cagcctcttt gtttccacc actaatgtca acaatgcaac caccacctgc ttggaaggct tctccaaaag tgtctggaa acttatattat ccaagatcac aatatattat gaagtgttg ggtttatcat tctctaaata ttgaatgtct ctgtctcttc tgtgggtgctg agaactcttc gcaagcctgc tactctgtct caaatggga ccaataagaa aaaagtactg aaactctgca cagtacatat ggcagtcttt gtggtatgct ttgtacccta caactctgtc ctctcttctg atgccctggt gcgctcccaa gctattacta attgcttttt ggaaagattt gcaagatca tgtaccctac cactctgtgc cttgcaactc tgaactgttg ttttgacct tcatctatt acttcaacct tgaatccttt cagaagtctt tctacatcaa tgcccacatc agaatggagt ccctgtttta gactgaaaca ccttgacca caaagccttc ccttcacagt attcaagagg aagttagtga tcaacaaca ataaatggtg tgaattcaat gctagaatcc accttttagg tatgagaat gtgttcaggt ccagatatgg ttctctctat aatttttct atgctataaa ctaaagattt gaagctaatg atactgagaa taatgcacca aatccagtc aatacatttg ttggaaggta tactgtagag tttttattgc tgttttgttc agtaattata ggtcaaatct aattacaaca accaagatgg attgccaaac tcttctgctt ggttggaatt tcatgtgatc gcattatcca ggtggcctagt ggcatttgat aatatagaga tgactttgaa actttcaaaa aggtatttct attccaatga tatttggtaa ttaggttggg cctataaata tagaacaat tcagggtattt ttaaaaaatt gtgttactac tgatatatgc tagttttatt ttattttttt ggactgtcat tgagtttatt ttagcacaaag aatatattta gcctaacatt attaataaga aatgtgtcaa atttttaaca ttggtaaaat atgttatgtg cattttgaa acagaaaaa aattgggttg gcagtacgt gggtgggaag aaaaaaataa ttaacaggat ttacacaatt ataaccacca gcagtgtgag tttaaaaaac ttcgttggtt ttacaccaa ttaaaatttt catgtcaaac ttcaagcca gaaagctgct aaatacgtgt ctggcaggta aaagctggaa aattacttaa acagggaaag tgtcaataaa aaaacttgag caacaccaa atattttttc taaaaatgtc acgttatctt cattttggga aactagggtc tataaaatat ttatctctcc tgttatactt tggagcacag cacagccaga aaggggctgc atttgtgccc aggtcaggag caaatgaaa aaaaaataa	Homo sapiens

225	3599	G Protein-Coupled Receptor 23 (GPR23)	NP_005287.1	<p>agtaatacta aaaaatcaaa ctataaaccc aaaaacattta ttaaaacctg aattaatcct ttdtgaggagg aggagtagag atataataacc tgaataatact tattctttct tatcgaattt tggagcctaa tatagccagg agctgctgaa ttttgcccc tggatttgaa ccaataaaaa aaaaaaaa aaattcct</p> <p>MGDRRFDIQ FQDSSSLRP RLGNAANNT CIVDSEKYN LMGAVYSVVF ILGLITNSVS P LFVFCFRMKM RSETAIFITN LAVSDLLFVC TLPKIFYNF NRHWPFGDTL CKISGTAFLT NIYGSMLFLT CTSVDRELA I VYFPRSTRIR TRNSAIVCA GWILVLSSG ISASLFSTTN VNNATTTCFE GFSKRWKTY LSKITIFIEV VGFIIPLIN VSCSSVLRT LRKPATLSQI GTNRKKVLKM ITVHMAVFV CFVPYNSVLF LYALVRSQAI TNCFLERFAK IMYPITLCLA TLNCCFDPFI YYFTLESFQK SFYINAHIRM ESLFKTETPL TTKPSLPAIQ EEVSDQTNN GGELMESTF</p>	Homo sapiens
226	3638	Parathyroid Hormone Receptor 2 (PTH2)	NM_005048	<p>gcccgttgcc cccggcccga ccaccccagg tgcggtcgt tactggccac aagtttgctc A tgggccagcc aagttggcaa ctgggaagct tctcccggc tctggaggag ggtccctgct tcttctaca gccgttccgg gcatggccgg gctggggggc tgcgtccacg tctggggttg gctaatgctc ggcagctgcc tctggccag agcccagctg gattctgatg gccatttac tatagaggag cagattgtcc ttgtgctgaa agcgaaagta caatgtgaac tcaacatcac agctcaactc caggaggagg aaggtaatgg ttccctgaa tgggatggac tcatgttg gccagagga acagtgggga aaatatggc gttccatgc cctccttata tttatgactt caaccataaa ggagttgctt tccgacactg taaccccaat ggaacatggg attttatgca cagcttaaat aaacatggg ccaattattc agactgcctt cgctttctgc agccagatat cagcatagga aagcaagaat tctttgaacg cctctatgta atgtataccg ttggctactc catctctttt ggttccctgg ctgtggctat tctcatcatt ggttacttca gacgattgca ttgcactagg aactatatcc acatgcactt atttgtgtct tctatgctga gagctacaag catctttgct aaagacagag tagtccatgc tcaatagga gtaaggagc tggagtcctt aataatgcag gatgacccac aaattccat ttgtgatgtt tattacttc ctggctacaa atcacata tatcgggtgc aagattgctg ttgtgatgtt tattacttc ctggctacaa attattattg gatcctggtg gaaggtctct acctgcataa tctcatcttt gttggtttct ttccggacac caaatacctg tggggttca tcttgatagg ctgggggttt ccagcagcat ttgttcagc atgggctgtg gcacgagcaa ctctggctga tgcgaggtgc tgggaactba gtgctggaga catcaagtgg atttatcaag caccgatctt agcagctatt gggctgaatt ttattctgtt tctgaatacg gttagagttc tagctaccaa aatctgggag accaatgcag ttgggcatga cacaaggaa caatacagga aactggccaa atcgacactg gtcctggctc tagtctttgg agtgcattac atcgtgttcg tatgctgcc tcaactcttc actgggctcg ggtgggagat ccgcatgcac tgtgagctct tctcaactc ctctcaggtt tctttgtgtg ctatcatcta ctgctactgc aatggagagg ttccaggcaga ggtgaagaag atgtggagtc ggtggaatct ctccgtggac tggaaaagga caccgccatg tggcagccgc agatcggtc cagtgcctcac caccgtgac cacagacca gcagccagtc acaggtggcg gccagcacac gcatgtgct tatctctggc aaagtgcga agatggccag cagacagcct gacagccaca tcaatttacc tggctatgct tggagtaact cagacagga ctgctgcca cactcttcc acgagagac caaggaagat agtgggagcg agggagatga tattctaatg gagaagcctt ccaggcctat ggaatctaac ccagacactg aaggatgcca aggagaaact gaggatgttc tctgaatgga</p>	Homo sapiens

227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	NP_005039.1	<p> MAGLGASLHV WGWMLGSL LARAQLDSG TITIEQIVL VLKAKVQCEL NITAOQEGE P GNCFPEWDGL ICWPRGTGK ISAVPCPPYI YDFNHKGVAF RHCPNGTWD FMHSLNKTWA NYSDFCLRFLO PDISIGKQEF FERLYVMYTV GYSISFGLA VAILIIGYFR RLHCTRNYIH MHLEVSFMLR ATSFVVKDRV VHAHIGVKEL ESLIMQDDPO NSIEATSVDK SQYIGCKTAV VMFIYFLATN YWMLVEGLY LHNLIFFVAF SDTKYLWRFV LIKGWFFPAF VAAWAVARAT LADARCWELS AGDIKWIYQA PILAAIGLNF ILFLNTWRFV ATKIWEINAV GHDRKQYRK LAKSTLVLVL VFGVHYIVFV CLPHSFTGLG WEIRMHCELF FNSQGFVS IICYCNGEV QAEVKMWSR WNLSVDWKRT PPCGSRRCGS VLTVTHTSTS SQSQAASR MVLISGKAAK IASRQPDHSI TLPGVVWSNS EQDCLPHSFH EETKEDSGRQ GDDILMEKPS RPMESNPDTTE GCQGETEDVL </p>	Homo sapiens
228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	NM_000316	<p> cggaggagc cggccctagg cgggtggcgt ggggaccgcc cggatcgac cggccctggc A gctcctgctc tgcctgcccc tgcctagctc cgcgtacgcg ctggtggatg cagatgacgt catgactaaa gaggaacaga tcttctgctc gcacgtgctc caggcccgat gcgaaaaacg gctcaaggag gtcctgcaga gccagccag cataatggaa tcagacaaagg gatggacatc tgcgtccaca tcagggaagc ccaggaaaga taaggcatct gggaagctct accctgagtc tgaggaggac aaggaggcac ccactggcag caggtaaccga gggcgcccc gtctgccgga atgggaccac atctgtgctc ggcgctggg ggacacaggt gaggtggtgg ctgtgccctg tcggactac attatgact tcaatcaaa aggcacatgcc taccgacgt gtgaccgcaa tgccagctgg gagctggtgc ctgggcaaaa caggacgtgg gcaactaca gcgagtgtgt caaatcttc accaatgaga ctctgtaacg ggaggtgttt gaccgctgg gcatgattta cacctgggc tactccgtgt ccctggcgctc cctcaccgta gctgtgctca tcctggccta ctttaggcgg ctgcactgca cgcgcaacta catccacatg cacctgttcc tgtccttcac gctgcgcgcc gtgagcatct tcgtcaaggga cgctgtgctc tactctggcg ccacgcttga tgaggctgag cgcctacacg aggaggagct gcgcgccatc gccaggcgc ccccgccgc tgccaccgcc gctgcggct acgcgggctg cagggtggct gtgaccttct tccttactt cctggccacc aactactact ggattctggt ggaggggctg tacctgcaca gcctcatctt </p>	Homo sapiens

229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	NP_000307.1	catggccttc ttctcagaga agaagtacct gtggggcttc acagtcttcg gctggggtct gcccgtgtc ttcgtggctg tgtgggtcag tgtcagagct accctggcca acaccgggtg ctgggacttg agctcggga acaaaaagtg gatcatcag gtgccatcc tggcctccat tgtgtcaac ttcctctct tcatcaatat cgtcgggtg ctgccacca agctgcgga gaccaacgcc ggcgggtg acacacggga gcagtacgg aagctgctca aatccacgt ggtgtcatg cccctcttg ggtccacta catgtcttc atggccacac catacacga ggtctcaggg acgtctggc agtccagat gcactcttg atgtcttca actccttcca gggatttttt gtcgaatca tatactgtt ctgcaatggc gaggtacaaag ctgagatcaa gaaatcttgg agcgtgga cactggcact ggacttcaag cgaaggcac gcagcgggag cagcagctat agctacggcc ccatgtgtc ccacacaagt gtgaccaatg tcggccccg tgtggactc ggcctgccc taagccccg cctactgcc actgccacca ccaacggcca ccctcagctg cctggccatg ccaagccagg gaccacagcc ctggagaccc toagaccac accacctgcc atggctgtc ccaaggacga tgggttctc aacggctcct gctcaggcct ggacgaggag gcctctggc ctgagcggcc acctgcccct ctacaggaa agtgggagac agtcattgtga ccaggcgtg ggggctggac ctgtgacat agtggatgga cagatggacc aaaagatggg tgggtgaatg atttccact cagggctgg ggcacaaggg aaaaacaggg aaaaaagaa aaaaaaaga aaaaaggaa	Homo sapiens
230	3732	PACAP Receptor Type 1	NM_001118	VTMKERQIFL LHRQAQCEK RLKEVLQRP A SEEDKEAPTG SRYGRPCIP EWDHILCWPL NGSWELVPGH NRTWANYSEC VKFLTNETRE YIHMHLFSE MLRAVSIFVK PATAAGYAG CRVAVTFFLY FLATNYIYWL SVRATLANTG CWDLSSGNKK QOYRKLLKST LVLMPLFGVH FCNGEVQAEI KKSWSRWTLA RVGLGLPLSP RLPTATTNG HPQLPGHAKP PPALLQEEWE TVM LDEASGPER agccacagaga cacattgggg ctgacctgcc gctgtgtca gtgggagcc agtgggtctg A gccaaagaagt gtcatggctg gtgtcgtgca cgtttccctg gctgtcact gcggggcctg tccgtggggc cggggcagac tccgcaaaag acgcagacc tgcaagtccg cggcccagag acacattggg gctgacctgc cgtgtgtgtc agtgggagcc cagtgtgtct ggccaagaag tgtcatggct ggtgtcgtgc acgtttccct ggtgtgtctc ctctgtctgc ctatggcccc tgccatgcat tctgactgca tcttcaagaa ggaacaagcc atgtgcctgg agaagatcca gagggccaat gagctgatgg gcttcaatga tctcttcca ggctgtcctg ggatgtggga caacatcacg tgttggaaac ccgcccattgt ggggtgagatg gctctgttca gctgcccctga gctcttccga abcttaacct cagaccaagt ctgggagacc gaaacattg gagagtctga ttttggtgac agtaactcct tagatctctc agacctgga gtggtgagcc ggaactgcac ggaggatggc tggctcggaac ccttccctca ctactttgat tctgtgggt ttgatgaata tgaatctgag actggggacc aggattatta ctactgttca gtgaaggccc tctacacggt tggctacagc acatccctcg tcacctcac cactgcccac gtcactcttt gtcgcttccg gaagctgcac tgcacacga acttcatcca catgaacctg tttgtgtctg tcatgctgag	Homo sapiens

231	3732	PACAP Receptor Type 1	NP_001109.1	<p> ggcgatctcc gtcttcatca aagactggat tctgtatgag gagcaggaca gcaaccactg cttcactccc actgtggaat gtaaggccgt catggttttc ttcactact gtgttgtgtc caactacttc tggctgttca tggaggccct gtacctcttc actctgctgg tggagacctt cttccctgaa aggagatact tctactggta caccateatt ggtctggggga ccccaactgt gtgttgaca gtgtgggcta cgtgagact ctactttgat gacacaggct gctgggatat gaatgacagc acagctctgt ggtgggtgat caaaggccct gtggttggtt ctatcatggt taactttgtg cttttttatg gcattatcgt cactctgtg cagaaacttc agtctccaga catgggaggg aatgagtcca gcatctactt cgcactggcc cgtccaccc tctgctcat cccactattc ggaatccact acacagtatt tgccttctcc ccagagaatg tcagcaaaaag gaaaagactc gtgtttgagc tggggctggg ctctctccag ggtttttggg tggctgttct ctactgtttt ctgaatgggt aggtacaagc ggagatcaag cgaataatggc gaagctggaa ggtgaaccgt tacttcgtg ggcacccagc tctccactct gageaagagc agtcccaaa tccgcatgtc ggtgaatggg ggcacccagc tctccactct ggcacactg agccatgctc cccct tggcctccct gctgacaatc tggccacctg agccatgctc cccct </p>	Homo sapiens
				<p> VHVSLAALL LLPMAPMHS DCIFKKEQAM KSAAQRHGA DLPLLSVGGQ WCWPRSVNAG P WKPAHVGEV LVSCPELFRI FNPQVWETE TIGESDFGDS NSLDLSDMGV VSRNCTEDGW SEPFHYFDA CGFDEYEST GDQDYIYLSV KALYTVGYST QDSNHCFTST VECKAVVFF HVCVSVNFW TRNFHMLNF VSFMLRAISV FIKDWIYAE QDSNHCFTST WATRLRYFDD TGCWDMNDST LFIEGLYLF LLVETFFPER RYFYWYTIIG WGTPTVCVTV ESSIYLRAR STLLIPLFG ALWWVIKGPV VGSIMNVFL FIGIIVLVQ KLOSPDMGN ESSIYLRAR STLLIPLFG IHYTVFAFSP ENVSKRERLV FELGLSFQF FVAVLYCFL NGEVQAEIKR KWSRWKNRY FAVDFKRRHP SLASSGVNGG TQLSILSKSS SQIRMSGLPA DNLAT </p>	
232	3844	Apelin Receptor	NM_005161	<p> atggaggaag gtggtgattt tgacaactac tatggggcag acaaccagtc tgagtgtgag A tacacagact ggaatccctc gggggccctc atccctgcca tctacatgtt ggtcttcttc ctgggcacca cgggaaacgg tctggtgctc tggaccgtgt ttcggagcag ccggggagaag aggcgctcag ctgatatctt cattgctagc ctggcggtgg ctgacctgac ctctgtggtg acgctgcccc tgtgggctac ctacacgtac cgggactatg actggccctt tgggaccttc ttctgcaagc tcagcagcta cctcatcttc gtcaacatgt acgccagcgt cttctgcttc acgggcctca gcttcgacg ctacctggcc atcgtgagc cagtggccaa tgctcggctg aggctgcggg tcagcggggc cgtggccacg gcagttcttt ggggtctggc cgcctcctg gccatgcctg tcatggtgtt acgcaccac ggggacttgg agaaccacac taagggtgcag tgctacatgg actactccat ggtggccact gtgagctcag agtgggctg gagggtgggc cttggggctc cgtccaccac cgtgggcttt gtggtgacct tcaccatcat gctgacctgt tacttcttca tcgccccaac cctcgtggc cacttcgca aggaacgat cgagggcctg cggaaagcgg gccggctgct cagcatcatc gtggtgctgg tggtagacct tgccctgtgc tggatgccct accactgggt gaagacgctg tacatgctgg gcagcctgct gactggccc tgtgactttg acctctctc catgaacatc ttccctact gcacctgat cagctacgtc aacagctgcc tcaacctctt cctctatgcc tttttcgacc cctcctccg ccaggcctgc acctccatgc tctgctgtgg ccagagcagg tgcgcaggga cctcccaag cagcagtggg gagaagtcag ccagctactc ttcgggggcac agccaggggc ccggcccaaa catgggcaag </p>	Homo sapiens

233	3844	Apelin Receptor	NP_005152.1	<p>ggtggagaac agatgcacga gaaatccatc ccctacagcc aggagaccct tgtggttgac tag</p> <p>MEEGDFDNY YGADNQSECE YTDWKSSGAL IPAIYMLVFL LGTTGNGLVL WTVFRSSREK P RRSADIFIAS LAVADLTFFV TLPLWATYTY RDYDWFPGTF FCKLSSYLIF VNMYSVFCL TGLSFDRYLA IVRPVANARL RLRVSGAVAT AVLWVLAALL AMPVMVLRIT GDLENTTKVQ CYMDYSMVAT VSSEWAWEVG LGVSTTVGF VVPFTIMLTC YFFIAQTIAG HFRKERIEGL RKRRRLLSII VLVVTFALC WMPYHLVKTLL YMLGSLHWP CDFDLFLMNI FPYCTCISYV NSCLNPFLLYA FFDPRFRQAC TSMGCCGQSR CAGTSHSSSG EKSASYSSGH SQPGPNMGK GGEQMHEKSI PYSQETLVLD</p>	Homo sapiens
234	3845	Chemokine- Like Receptor 1 (CMKLR1)	NM_004072	<p>gaattcggca cgagtcaggg aagcagcccc ggcgccagc agggagctca ggacagagca A ggctccctgg gaagcctccg ggtgataggg gtgtccagc tgcggcgctc tgggggttca gagggggatc ttgaatgaac aaatgaatga actgctttct gggcaaacag ccacagccag aggagcctgt gattggcaga aagaagccag ggtgtgcaag tctcccaac agcctcgagt ggcctgcagt cacagggaac cctcagggaag acctccggg cagagaccag agggaagccc atctctccag cagaactgct tggatttttc taccaggagg ctccaggctc tgcaacaatg atagcagaag ctgatggcat ctgagatctt aggtgggac tagcacagca tcacttctac cactttctgt tggtcacagc aactcccat gccagtgcag attcaagggg aggagaaata gagtcacatt ctgatggga ggctgacat aagatggagg atgaagatta caacacttcc atcagttacg gtgatgaata ccttgattat ttagactcca ttgtggtttt ggaggactta tccccttgg aagccagggt gaccaggatc ttctctgggtg ttgtctacag catcgtctgc ttctcggga ttctgggcaa tggctgggtg atcatcattg ccaccttcaa gatgaagaag acagtgaaca tggctggtt cctcaacctg gcagtggcag atttctgtt caacgtcttc ctcccaatcc atatcaccta tgcggccatg gactaccat gggttttcgg gacagccatg tgaagatca gcaacttctt tctcatccac aacatgttca ccagcgtctt cctgtgacc atcatcagct ctgaccgctg catctctgtg ctctctctg tctgttccca gaaccaccg agcgttcgcc tggcttacat ggctgcatg gtcatctggg tctgtggtt ctctctgagt tcccacttc tgtcttccg ggacacagcc aacctgcag ggaaaatata ctgcttcaac aacttcagcc tgtccacacc tgggtcttcc tctgtgccc ctcactccca aatggaccct gtgggggtata gccggcacat ggtgttgact gtcacccgct tctctgtgg ctctctggtc ccagtcctca tcatcacagc ttgtacctc accatcgtgt gcaaacctga gcgcaaccgc ctgggccaaga ccaagaagcc ctccaagatt attgtgacca tcatcattac ctctctctc tgctgggtgcc cctaccacac actcaacctc ctgagctcc accacactgc catgctggc tctgtcttca gcctgggttt gccctggcc actgcccctg ccattgcca cagctgcatg aaccctatc tgtatgtttt catgggtcag gacttcaaga agttcaaggt ggcctcttc tctgcctgg tcaatgctct aagtgaagat acaggccact ctctctacc cagccataga agctttacca agatgtcatc aatgaatgag aggacttcta tgaatgagag ggagaccggc atgctttgat cctcactgtg gaacacctca atggactctc tcaaccagg gacaccaag gatatgtctt ctgaagatca aggaagaac ctctttagca tccaccaatt ttcactgcat tttgcatggg atgaacagtg ttttatgctg ggaattag gcttggaaac ccttcttct agtggacaga acatgctgtg ttccatacag ccttggacta gcaatttatg ctctctggga ggccagcctt gactgactca aagcaaaaaa ggaagaattc</p>	Homo sapiens

[illegible]

237	3846	Sphingolipid NP_001391.2 Receptor Edg1	catgtaagcg ggatccggtt ttggaattt gttgaagtc acttgattt ctttaaaaa catcttttca atgaatgtg ttaccattt atatccattt aagcgaat ctgcataagg aagccactt tatataatg atattagcca gatacttgg tgtctagga gaaacagaca agcaaacaa agtgaacc gaatggatta actttgcaa accaaggag atttcttagc aaatgagtct acaaatatg acatcgtct tccactttt gttgatgtt tatttcagaa tcttggtga ttcatattca gcaacaacat gttgtattt gttgtgtta aagtactttt cttgattttt gaatgtattt gtttcaggaa gaagtattt tatgatttt tctaaccgt gttaactttt ctagaatcca cctctgtg cccttaagca ttactttaac tggtaggaa cgccagaact ttaagtcca gctattcatt agatagtaat tgaagatatg tataaatatt acaaagaata aaatatatt actgtctctt tagtatggtt ttcatgcaa ttaaacggag agatgtcttg tttttttaa aagaatagta ttaataaggt ttctgacttt tgtggatcat tttgcacata gctttatcaa cttttaaaca ttaataaact gatttttta aag MGPTSVPLVK AHRSSVSDYV NYDIIVRHYN YTGKLNISAD KENSIKLTSV VFILICCFII P LENIFVLLTI WTKKFKHRPM YFIGNLALS DLLAGVAYTA NLLSGATTY KLTPAQWFLR EGSMFVALSA SVFSLAIAI ERYITMLRMK LHNSNNFRL FLISACWVI SLILGLPIM GWNCSIALSS CSTVLPYHK HYILFCTVF TLLLSIVIL YORIYSLVRT RSRRLTFRKN ISKASRSSEK SLALLKTVII VLSVFIACWA PLFILLILDV GCKVKTCDIL FRAEYFLVLA VLNSGTNP11 YTITNKEMRR AFIRIMSOCK CPSSDSAGKF KRPIIAGMEF SRSKSDNSSH PQKDEGNPE TIMSSGNVNS SS	Homo sapiens
238	3847	Sphingolipid NM_005226 Receptor Edg3	atggcaactg cctcccgcc gcgtctccag ccggtgcggg ggaacgagac cctgcgggag A cattaccagt acgtgggaa gttggcgggc aggtggaag aggcctcga gggcagcagc ctcaccacgg tgctcttctt ggtcatctgc agctcatcg tcttgagaa cctgatggtt ttgattgcca tctggaaaaa caataaattt cacaaccgca tgtacttttt cattggcaac ctggctctct gcgacctgct ggcgggcac gcttacaag tcaacattct gatgtctggc aagaagacgt tcagcctgct tcccacggtc tggttcctca gggaggcag tatgttctg gcccttgggg cgtccacttg cagcttactg gccatcgcca tcgagcgga cttgacaatg atcaaaaatga ggccttacga cgccaaacag aggcaccgct tcttctctct gatcgggatg tgctggctca ttgccttcac gctgggcgcc ctgccattc tgggctggaa ctgcctgcac aatctccctg actgctctac catcctgccc ctctactcca agaagtaaat tgcctctg atcagcatct tcacggccat cctggtgacc atcgtgatcc tctacgcag catctactt ctggtgaagt ccagcagcgg taagtgccg aaccacaaca actcggagcg gtccatggca ctgctgcgga ccgtggtgat tgtgtgagc gtgttcacg cctgctggtc cccactctt atcctcttcc tcattgatgt ggcctgcagg gtgcaggcgt gccccatcct cttcaaggct cagtggttca tcgtgttggc tgtgtctaac tccgccatga acccggtcat ctacacgtg gccagcaagg agatgcggcg ggccttcttc cgtctggtct gcaactgctt ggtcagggga cgggggggcc gcgctcacc catccagcct gcgctcgacc caagcagaag taaatcaagc agcagcaaca atagcagcca ctctccgaag gtcaagaag acctgcccc cacaagcccc tcatcctgca tcatggacaa gaagcagca cttcagaagt ggaattcttg caactga NATALPPRLQ PVRGNFTLRE HYQYVVKLAG RLKEASEGST LTTVLFLVIC SFVLENLMV P LIAIWKNKF HNRMYFFIGN LALCDLLAGI AYKNILMSG KKTFSLSPTV WFLREGSMFV ALGASTCSLL AIAIERHLM IKMRPYDANK RHRVFLLMG CWLIAFTIGA LPILGNCLH	Homo sapiens
239	3847	Sphingolipid NP_005217.1 Receptor Edg3		Homo sapiens

240	3848	C-C Chemokine Receptor 9	NM_006641	<p>NLPDCSTILP LYSKKYIAFC ISIFTAILVT IVILYARIYF LVKSSSRKVA NHNNSERSMA LLRTVVIVWS VFLACWSPLF ILFLIDVACR VQACPILFKA QWFIVLAVLN SAMNPVIYTL ASKEMRRAFF RLVNCNLVRG RGARASPIQP ALDPSRSKSS SSNNSSHSKP VKEDLPHTDP SSCINDKNAA LQNGIFCN</p> <p>gccccctcatc ceaggcgag agcaacccag ctctttcccc agacactgag agctggtggt A gcctgtctgc ceaggggagag ttgcatcgcc ctcccaagc cctattccta acatggctga tgactatggc tctgaatcca catcttccat ggaagactac gttaaacttca acttcactga cttctactgt gagaaaaaca atgtcaggca gtttgcgagc catttcctcc cacccttgta ctggctcgtg ttcactcgtg gtgccttggg caacagtctt gttatccttg tctactggta ctgcacaaga gtgaagacca tgaccgacat gttccttttg aatttggcaa ttgctgacct cctctttctt gtcactcttc ccttctgggc catgtctgct gctgaccagt ggaagtcca gaccttcatg tgcaagggtg tcaacagcat gtacaagatg aacttctaca gctgtgtgtt gctgatcatg tgcatacgcg tggacaggta cattgccatt gccaggcca tgagagcaca tacttggag gagaaaaggc ttttgtacag caaaatggtt tgctttacca tctgggtatt ggcagctgct cctctgcacc cagaaatctt atacagccaa atcaaggagg aatccggcat tgctatctgc acctatggtt accctagcga tgagagcacc aaactgaagt cagctgtctt gacctgaag gtcatctctg ggttctctct tcccttctgt gtcattggtt gctgtctatac catcatcatt cacacctga tacaagccaa tctttgtctt gtctcagttt cctacaact gcattttgtt gacctcact gtctcgaccg tctttgtctt atgccatgtt catctccaac tgtgccgttt ccaccaacat ggtgcagacc attgacgct atgacctgtt cccagacctat cgcctcttc cactgttgc tgaacctgt tgacatctgc ttccagggtca cccagacctat agagattccg cgggatctc gtgaaaacc tgaagaactt tctctatgtt tttgtgggtg agagattccg agagattccg cgggatctc gtgaaaacc tgaagaactt gggttgcac agccaggccc agtgggttct atttacaagg agagaggga gcttgaagct gtcgtctatg ttgctggaga caacctcagg agcactctcc ctctgagggg tcttctctga gttgcatggt tcttttggaa gaaatgagaa atacagaaac agtttcccca ctgatgggac cagagagagt gaaagagaaa agaaaactca gaaagggatg aatctgaact atatgattac ttgtagtcag aatttgccaa agcaaatatt tcaaaatcaa ctgactagt caggaggctg ttgattggct cttagctgtg atgcccgcaa ttctcaagg aggactaagg accggcactg tggagcaccc tggctttgcc actcgccgga gcatcaatgc cgtgcctct ggaggagccc ttggattttc tccatgcact gtgaacttct gtggcttcag ttctcatgct gcctctcca aaaggggaca cagaagcact ggctgtgct acagaccgca aaagcagaaa gtttcgtgaa aatgtccatc tttaggaaat ttttaccct gctcttgagc ctgataccc atgceaggtc ttatagattc ctgatctaga acctttccag gcaatctcag acctaatctt cttctgttct ccttgttctg ttctgggcca gtgaaggtcc ttgttctgat ttgaaaaca tctgcaggtc ttgccagtga acccctggac aactgaccac accacaagg catccaaagt ctgttggctt ccaatccatt tctgtgtcct gctggagggt ttaacctaga caaggattcc gcttattcct tggatgggtg acagtgtct tccatggcct gagcagggag attataacag ctgggttcgc aggagccagc cttagccctg tttaggctt tttaggttga gtggacttg ctttgggtcc accgtctgtc tgctccctag aaaaatgggt ggttcttttg gcccttctt tctgaggcc cactttattc tgaggaatag agtgagcaga tatgggcagc agccaggtag ggcaggggg tgaagcgag gccttgcctg aagctattt acttccatgc ttctcctttt cttactctat</p>	Homo sapiens
-----	------	--------------------------------	-----------	--	-----------------

241	3848	C-C Chemokine Receptor 9	NP_006632.2	SSMEDYVNFN FTDFYCEKNN VRQFASHFLP PLYWLVEIVG ALGNSLVILV P YWYCTRVKTM TDMFLNLAI ADLLFLVTLF FWALAAADQW KEQTFMCKVV NSMYKWNFYF CVLLIMCISV DRYAIAQAM RAHTWREKRL LYSKMVCFTI WVLAAALCIP EILYSQIKEE SGIACTMVY PDESTKLKS AVLTLKVLIG FFLPFVVMAC CYTIIHTLI QAKKSSKHKA LKWTITVTV FVLSQFPYNC ILLVQTIDAY AMFISNCAVS TNIDICFQVT QTIAFFHSCL NPVLVYFVGE RFRDLVKTL KNIGCISQAQ WVSFTREGS LKLSSMLLET TSGALS atggtgcaaca ttttaaaagc ttttaactta gagattaggg tgaataaaat aagtaaatga attcaccttt geatcttttg tgtctttctt atcatgattt gcaaaaaatg atcacctttg aaaaatttc acatattgga aaagtgcctt ttaattgtga tatgaagcat taattacttg tcactttctt tacctgtct caatatatta agtgtgtgca attaaagatc aaatagatac at	Homo sapiens
242	3849	G Protein- Coupled Receptor GPR1	NM_005279	atggaagatt tggaggaaac attattgaa gaattgaaa actattccta tgacctagac A tattactctc tggagtctga tttggaggag aaagtcacagc tgggagttgt tcaactgggc tccttggtgt tataattggtt ggcttttgtt ctgggaattc caggaatgac catcgtcatt tgggtcacgg ggctcaagtg gaagaagaca gtcaccactc tgtggttctt caatctagcc attgcggatt tcaattttct tctctttctg cccctgtaca tctctatgt ggccatgaat ttccactggc cctttggcat ctggctgtgc aaagccaatt ccttcactgc ccagttgaac atgtttgcca gtgttttttt cctgacagtg atcagcctgg accactatat cattatatc catcctgtct tatctcatcg gcacgaacc cteaagaact ctctgattgt cactatattc atctggcttt tggctctct aattggcgtt cctgccctgt acttccggga cactgtggag ttcaataatc atactctttg ctatacaat tttcagaagc atgacacctga cctcactttg atcaggcacc atgttctgac ttgggtgaaa tttatcattg gctatctctt cctttgcta acaatgagta tttgctactt gtgtctcatc tccaagtgga agaagcgaac agtctcgatc tccagtggc atttctggac aattctggtt gtggttgggt cctttgtggt ttgctgact ccttatcacc tgttagcat ttgggagctc accattcacc acaatagcta tccccaccat gtgatgcagg ctggaatccc cctctccact ggtttggcat tctcaatag ttgcttgaac cccatccttt atgtcctaatt tagtaagaag tccaagctc gcttccggtc ctcagttgct gagatactca agtacacact gtgggaagtc agctgttctg gcacagtgag tgaacagctc aggaactcag aaaccaagaa tctgtgtctc ctggaacag ctcaataa MEDLEETLFE EFENYSYDLD YYSLESDLEE KVLGVVHW SILVLYCLAFV LGIPGNAIVI P WFTGLKWKKT VTTLWFLNLA IADFLLFL PLYISYVAMN FHWPFGIWLC KANSFTAQLN MFASVFFLTV ISLDHYIHLI HPVLSHRHRT LKNSLIVIF IWLLASLIGG PALYFRDTVE FNNHTLCYNN FQKHDPDLTL IRHVLTWVK FIIGYLFPLL TMSICYLCLI FKVKRTVLI SSRHFWTILV VVAFVVCWT PYHLFSIWEL TIHNSYSHH VMQAGIPLST GLAFLNSCLN PILYVLISKK FQARFRSSVA EILKYLWEV SCSGTVSEQL RNSETKNLCL LETAQ atggcctcat cgaccactcg ggccccagc gtttctgact tattttctgg gctgcgcgcg A gcggtcacaa ctcccccaa ccagagcgca gaggcctcg cggaacacgg gtcggtggct ggcgcgagc ctccagcgt cagcccttc cagagctgc agctggtgca tcagctgaag gggctgacg tgcgtctcta cagcgtctg gtggtcgtg ggctggtggg caactgcctg ctgggtgctg tgatcgcgcg gggtgcgcgg ctgcacaaag tgacgaactt cctcatcgcc aacctggcct tgtccgacgt gctcatgtgc accgcctgct gcgcgctcac gctggcctat	Homo sapiens
243	3849	G Protein- Coupled Receptor GPR1	NP_005270.1	atggtgcaaca ttttaaaagc ttttaactta gagattaggg tgaataaaat aagtaaatga attcaccttt geatcttttg tgtctttctt atcatgattt gcaaaaaatg atcacctttg aaaaatttc acatattgga aaagtgcctt ttaattgtga tatgaagcat taattacttg tcactttctt tacctgtct caatatatta agtgtgtgca attaaagatc aaatagatac at	Homo sapiens
244	3850	G Protein- Coupled Receptor 10 (GPR10)	NM_004248	atggtgcaaca ttttaaaagc ttttaactta gagattaggg tgaataaaat aagtaaatga attcaccttt geatcttttg tgtctttctt atcatgattt gcaaaaaatg atcacctttg aaaaatttc acatattgga aaagtgcctt ttaattgtga tatgaagcat taattacttg tcactttctt tacctgtct caatatatta agtgtgtgca attaaagatc aaatagatac at	Homo sapiens

245	3850	G Protein-Coupled Receptor 10 (GPR10)	NP_004239.1	<p>gcttcgagc cagcggctg ggtgttcggc ggcggcctgt gccacatggt cttcttcctg</p> <p>cagccggta cagtctatgt gtggtgttc agctcacca ccatgcagat ggacgcgtac</p> <p>gtggtgtgg tgcacccgtt gaggcggcg atctgcgtc gctcagcgc ctacgtgtg</p> <p>ctggccatct gggcgtgtc cgcggtgtg ggcgtgccc cgcggtgca caccatcac</p> <p>gtggagctca agcgcacga cgtgcgctc tgcgaggat tctggggctc ccaggagcgc</p> <p>cagcgcacg tctacgcctg ggggtgctg tgggtcacct acctgtccc tctgtgtgtc</p> <p>atctctcgt cttacgtccg ggtgtcagt aagttccga accggtggt gccgggtgc</p> <p>gtgacccaga gccaggcga ctgggacgc gctcggcgc ggcgcacct ctgctgtctg</p> <p>gtggtgtctg tgggtgtgtt cgcgctctg tggctgcgc tgacgtctt caactgtctg</p> <p>cgggacctg accccaacg catgacctc tagcctttg ggctgggtg gctgtctgc</p> <p>catggctcg ccatgattc ggctgtctc aaccttca tctacgcctg gctgacgac</p> <p>agcttcgcg aggagctcg caactgtg gtgctgtgc ccgcaagat agcccccat</p> <p>ggcagaata tgaccgtcag cgtggtcatc tga</p> <p>MASSTRGPR VSDLSGLPP AVTTPANQSA EASAGNSVA GADAPAVTFF QSLQLVHQLK P</p> <p>GLIVLLYSV VVGLVGNCL LVLVIARVR LHNVTNFI LNALSDVLMC TACVPLTLAY</p> <p>AFEPRGWVFG GGLCHLVFFL QPVTIVSVF TLTTIADVRL VVLVHPLRRR ISLSAYAV</p> <p>LAIWALSAVL ALPAAVHTYH VELKPHDVR ELCEFWGSQER QRQLYAWGLL LVTYLLPLLV</p> <p>ILLSYVRVSV KLNRNVFPG VTQSADWDR ARRRRTFCLL VVVVVFVAVC WLPLHVENLL</p> <p>RDLDPHAIDP YAFGLVQLIC HMLAMSSACY NPFIYAWLHD SFREELRKLL VAWPRKIAPH</p> <p>GQNMVSVVI</p>	Homo sapiens
246	3851	G Protein-Coupled Receptor GPR12	NM_005288	<p>atgaatgaag acctgaaggt caattaaagc gggctgcctc gggattattt agatgccgct A</p> <p>gctgcggaga acatctcggc tgctgtctcc tcccgggttc ctgcgtaga gccagagcct</p> <p>gagctcgtag tcaacccctg ggacattgtc ttgtgtacct cgggaacct catctcctgt</p> <p>gaaaaagcca ttgtgtctc tatcatctc cacaacccca gctgcgagc acctatgttc</p> <p>ctgctaatag cagcctggc ttgtgcagc ctgctggcgc gattggact cataccaat</p> <p>tttgtttttg cctacctgct tgcgtcaga gccaccaagc tggctcagat cggcctcatt</p> <p>gtgcctctt tctctgcctc ttgtgcgc ttgtgtgagc ttactgtga cgcctacctc</p> <p>tactgtact acgctctgac gtaccattcg gagagcagg tcacgtttac ctatgtcatg</p> <p>ctcgtcatgc tctgggggac ctccatctgc ctggggctgc tgccgtcat gggctgggac</p> <p>tgctccgag acgagtcac ctgcagcgtg gtacagaccg tcaccaagaa caacgcggcc</p> <p>atcctctcgg tgtctctct cttcatgtt gcgctcatgc ttcagctcta catccagatc</p> <p>tgtaagattg tgatgagga cgcctcatcag atagccctgc agacacctt cctggccacg</p> <p>tcgcactatg tgaccaccg gaaagggtc tccacctgg ctatcatctt ggggacgttt</p> <p>gctgctgtct ggatgcctt caccctcat tcttggatag cggattacac ctaccctcc</p> <p>atctatacct acgcaacct cctgcccgc acctacaatt ccatcatcaa cctgtcata</p> <p>tatgctttca gaacccaaga gatccagaaa gcgctctgtc tcatgtgtg cggctgcac</p> <p>ccgtccagtc tcgccagag agcgcgctcg cccagtatg ttag</p> <p>MNEDLKVNL GLPRDYLDA AENISAASV SRVPAVEPEP ELVNPWDIV LCTSGTLISC P</p> <p>ENAIIVLIIF HNPRLAPMF LLIQSLALAD ILAIGLITN FVFAYLLQSE ATKIVTIGLI</p> <p>VASFASVCS LLAITVDRL SLTYALTYHS ERTVFTYVM LVMLGTSIC LGLLPVMGN</p> <p>CLRDESTCSV VRPLTKNAA ILSVSFLEMF ALMLQLYIQI CKIVNRHAHQ IALQHHFLAT</p>	Homo sapiens
247	3851	G Protein-Coupled Receptor GPR12	NP_005279.1		Homo sapiens

248	3852	CX3C Chemokine Fractalkine Receptor 1	NM_001337	SHYVTRKGV STLAILGTF AACWMPFTLY SLIADYTPS IYTYATLLPA TYSIINPVI YAERNQEIQK ALCLICCGCI PSSLAQRARS PSDV gggagcagtc cagattccct ttgcagtcga cgccagccct tcaccatgga tcagttccct A gaatcagtgga cagaaaaact ttgagtacgat gatttggctg aggcctgtta tattggggag atcgtgtct ttgggactgt gttcctgtcc atattact cegtcatctt tgccattggc ctggtggga attgtgtgtt agtgttggc ctaccaaca gcagaagcc caagagtgc accgacattt acctcctgaa cctggccttg tctgattgc tgtttgtagc cacttggcc ttctggactt actatttgat aaatgaaaaa ggcctcaca atgccatgtg caaattcaat accgctctt ctctcatcg cttttttgga agcatattct tcaccacct catcagcatt gataggtacc tggccatcgt cctggccgcc aactccatga acaaccggac cgtgcagcat ggcgtacca tcagcctagg cgtctgggca gcagccatt ttgtggcagc acccagttc atgttcacaa agcagaaaaa aaatgaatgc cttgtgact acccgaggt cttcaggaa atctggcccg tgcctccgaa tgtggaaca aatttcttg gttcctact cccctgctc attatgagtt attgctactt cagaatcgc cagagcgtgt ttctctgcaa gaaccacaag aaagccaaa ccatataact gatcctctg gtggtcacg tgttttctt cttctggaca ccctacaacg ttatgatatt cctggagacg ctttaagctct atgacttctt tccagttgt gacatgagga aggatctgag gctggccctc agtctgactg agcgggtgc attagccat tgttgccctga atcctctcat ctatgcatt gctggggaga agttcagaag ataccttac cacctgatg ggaatgcct gctgtcctg tgtgggctg cagtcacagt tgatttctc tcactggaat cacaaggag caggcatgga agtgttctga gcagcaatt tacttaccac acgagtgat gagatgcatt gctcctctc tgaagggaat ccaagacct tglgtctaca gagaacctgg agtctctgaa cctgatgctg actagtggg aagattttt ttgttattc ttacaggcac aaaaatgatg acccaatgca cacaacaa cctagagtg ttgttgagaa ttgtgtcaa aatttgaaga atgaacaaat tgaactctt gaatgacaaa gtagagacat ttctctact gcaaatgtca tcagaactt ttggtttgca gatgacaaaa attcaactca gactagtta gttaaatgag ggtggtgaat attgttcata ttgtggcaca agcaaaaagg gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALDILF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAALV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTENFLGF LPLLLMSYC YFRIIQTLS CNHKKAKAI KLILLVIVF FLFWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRLYLHLYGK CLAVLCGRSV HVDFSSSEQ RSRHGSVLSS NPYHTSDGD ALLLL atggaccag aaaaaactt agttatttg gattattact atgctacag cccaaactct A gacatcagg agaccactt ccatgttctt tacacctgt tcttcttcc agtctttac acagctgtgt tctctgactg agtgcgggg aacctgttc tcattgggagc gttgcattc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgactc atcttctctg tcacttgcc tctctgggtg gataaagaag catctctagg actgtggagg acgggctctt tctgttgcaa agggagctcc tacatgatct cegtcaatat gcaactgcagt gtcctcctgc tcaactgcat gagtgtgac cgtacctgg cattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgacagcat ctggtttctc	Homo sapiens
249	3852	CX3C Chemokine Fractalkine Receptor 1	NP_001328.1	gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALDILF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAALV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTENFLGF LPLLLMSYC YFRIIQTLS CNHKKAKAI KLILLVIVF FLFWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRLYLHLYGK CLAVLCGRSV HVDFSSSEQ RSRHGSVLSS NPYHTSDGD ALLLL atggaccag aaaaaactt agttatttg gattattact atgctacag cccaaactct A gacatcagg agaccactt ccatgttctt tacacctgt tcttcttcc agtctttac acagctgtgt tctctgactg agtgcgggg aacctgttc tcattgggagc gttgcattc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgactc atcttctctg tcacttgcc tctctgggtg gataaagaag catctctagg actgtggagg acgggctctt tctgttgcaa agggagctcc tacatgatct cegtcaatat gcaactgcagt gtcctcctgc tcaactgcat gagtgtgac cgtacctgg cattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgacagcat ctggtttctc	Homo sapiens
250	3853	G Protein- Coupled Receptor GPR15	NM_005290	gtgtctgagc cctcaaatg aggggaacca gggcctgagc caagcta MDQFPESVTE NFEYDDLAE CYIGDIVVFG TVFLSIFYSV IFAIGLVGNL LVVFALTNK P KPKSVTDIYL LNLALDILF VATLPFWTHY LINEKGLHNA MCKFTTAFFF IGFFGSIFFI TVISIDRYLA IVLAANSMMN RTVQHGVTIS LGVWAAALV AAPQFMFTKQ KENECLGDYP EVLQEIWPVL RNVTENFLGF LPLLLMSYC YFRIIQTLS CNHKKAKAI KLILLVIVF FLFWTPYNVM IFLETCLKYD FFPSCDMRKD LRLALSVTET VAFSHCCCLNP LIYAFAGEKF RRLYLHLYGK CLAVLCGRSV HVDFSSSEQ RSRHGSVLSS NPYHTSDGD ALLLL atggaccag aaaaaactt agttatttg gattattact atgctacag cccaaactct A gacatcagg agaccactt ccatgttctt tacacctgt tcttcttcc agtctttac acagctgtgt tctctgactg agtgcgggg aacctgttc tcattgggagc gttgcattc aaacccggca gccgaagact gatcgacatc ttatcatca atctggctgc ctctgactc atcttctctg tcacttgcc tctctgggtg gataaagaag catctctagg actgtggagg acgggctctt tctgttgcaa agggagctcc tacatgatct cegtcaatat gcaactgcagt gtcctcctgc tcaactgcat gagtgtgac cgtacctgg cattgtgtg gccagtcgta tccaggaaat tcagaaggac agactgtgca tatgtagtct gtgacagcat ctggtttctc	Homo sapiens

251	3853	G Protein- Coupled Receptor GPR15	NP_005281.1	MDPEETSVYL DYVATSPNS DIRETHSHVP YTSVFLPVFY TAVFLTGVLG NLVLMGALHF P KPGSRRLIDI FIINLAASDE IFLVTLPLMW DKEASIGLWR TGSFLCKGSS YNISVNMHCS VLLLTOMSDV RYLAIWPPV SRKFRRTDCA YVVCASIWFI SCLIGLPTLL SRELTLLDDK PYCAEKKATP IKLIWSLVAL IFTFFVPLLS IVTCYCCIR KLCAHYQOSG KHNKKLKSI KIIFIWAAF LVSWLPFNTF KELAIVSLGR QEHYLPAIL QLGMEVSGPL AFANSCVNP IYYIFDSYIR RAIVHCLCPC LKNYDFGSST ETSDSHLTKA LSTFIHAEDF ARRRKRSVSL gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctcggacgcc aagcgttaca A ctggaaacta ctttttaag caacaaaaga gtctaaaaca aaatacaaca ttctttaa acactgtttc cagaaaagc tattttaaca gaagcaactc aaagatatcc cttcgacaga agtggaaagt ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtttcta agtatcatgc ctaccaacaa gctgtaaaat gatcacctcg acaaatcaag atcaacctgt ccctttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg tatctcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac caagaagaga accacggtta ccatctatat gatgaatgtg gcattagtgg acttgatatt tataatgact ttacctttc gaattgttta ttatgcaaaa gatgaatggc catttggaga gtactttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct tcttgccctt attagtctg acagatacat ggcatttga cagccgaagt acgcaaaaga acttaaaaa acgtgcaaa cctgtctgac tgctctataa agaccagat aaagactcca ctcccgccac cacgaccacc cctctgctac tcactatct tcactatct aagctgtg aactgtgta acctactcg ctgctcaag atttctgaca ttccttctga ttccttctgt cactatgatt ggggtgctact tggctattat tcataatctc cttcacggca ggacgtctaa gctgaaccc aaagtcaagg agaagtccat aaggatcatc atcacgctgc tgggtcaggt gctcgtctgc tttatgcct tccacatctg ttcgtcttc ctgatgctgg gaacggggga gaacagttac aatccctggg gagcctttac caccttctc atgaacctca gcacgtctc ggatgtgatt ctctactaca tcgtttcaaa acaatttccag gctcagatca ttagtgcac gtataacct aattacctc gaagcatgag cagaaaaagt ttccgactg ttagtctac gtcaactaagc aaataaaca gtgaaatgtt atgaataata aggttcttc atttcaatcc catcaaaat cacttacta actactctg cgtcaatgga tattctgtat aatactatc agtccctttt ctcttgaaaa aataaattca ttatcttcat tttaaaaaa aaaaaaaa	Homo sapiens
252	3854	G Protein- Coupled Receptor GPR18	NM_005292	gaaagagaca aagcagcaat taaagtcagc ccagcaccaa ctcggacgcc aagcgttaca A ctggaaacta ctttttaag caacaaaaga gtctaaaaca aaatacaaca ttctttaa acactgtttc cagaaaagc tattttaaca gaagcaactc aaagatatcc cttcgacaga agtggaaagt ctgaaaaatg ctcatctctc acacagactt ttgatggaca ggagtttcta agtatcatgc ctaccaacaa gctgtaaaat gatcacctcg acaaatcaag atcaacctgt ccctttaac agctcacatc cagatgaata caaaattgca gcccttgtct tctatagctg tatctcata attggattat ttgttaacat cactgcatta tgggttttca gttgtaccac caagaagaga accacggtta ccatctatat gatgaatgtg gcattagtgg acttgatatt tataatgact ttacctttc gaattgttta ttatgcaaaa gatgaatggc catttggaga gtactttctgc cagattcttg gagctctcac agtgttttac ccaagcattg ctttatggct tcttgccctt attagtctg acagatacat ggcatttga cagccgaagt acgcaaaaga acttaaaaa acgtgcaaa cctgtctgac tgctctataa agaccagat aaagactcca ctcccgccac cacgaccacc cctctgctac tcactatct tcactatct aagctgtg aactgtgta acctactcg ctgctcaag atttctgaca ttccttctga ttccttctgt cactatgatt ggggtgctact tggctattat tcataatctc cttcacggca ggacgtctaa gctgaaccc aaagtcaagg agaagtccat aaggatcatc atcacgctgc tgggtcaggt gctcgtctgc tttatgcct tccacatctg ttcgtcttc ctgatgctgg gaacggggga gaacagttac aatccctggg gagcctttac caccttctc atgaacctca gcacgtctc ggatgtgatt ctctactaca tcgtttcaaa acaatttccag gctcagatca ttagtgcac gtataacct aattacctc gaagcatgag cagaaaaagt ttccgactg ttagtctac gtcaactaagc aaataaaca gtgaaatgtt atgaataata aggttcttc atttcaatcc catcaaaat cacttacta actactctg cgtcaatgga tattctgtat aatactatc agtccctttt ctcttgaaaa aataaattca ttatcttcat tttaaaaaa aaaaaaaa	Homo sapiens

257	3856	G Protein- Coupled Receptor GPR2/CCR10	NP_057686.1	ccacctgctc cagctggccc tggccgacct cttgtggcc ctgactctgc cttcgcggc agcaggggct cttcagggtt ggagtctggg aagtgcacc tgcgcacca tctctggcct ctactcggcc tcttccacg ccggcttctt cttctggcc tgtatcagcg ccgaccgcta cgtggccatc ggcgagcgc tccagccgg gccgcggccc tccactccc gccgcgaca cttggctcc gtcactgtgt ggtctgtc actgtctctg gcgtgcctg cgtgctctt cagccaggat ggcagcggg aggcacaaog acgtgtcgc ctcacttcc ccgaggcct cacgcagacg gtgaaggggg cgagcgctt ggcgaagct gccctgggt tgcgctgcc gctggggctc atggtagcct gctacgcct tctggccgc acgtgtctg ccgccagggg gcccgagcg cggcgtgcgc tgcgcgtctt ggtggctctg gtggcgccct tctgtgtgt gcagctggcc tacagcctcg cctgtctgt ggatactgcc gatctactgg ctgcgcgga gcggagctgc cctgccagca aacgcaagga tctgcactg ctggtgacca gcggttggc cctcgcccg tctggcctca atccgttct ctacgcttc ctggcctgc gttccgcca ggacctgcgg aggtctctac ggggtgggag ctgcctcca ggcctcaac ccgcgcggg ctgccccgc cggccccgc ttcttctctg ctacgtccc acggagacc acagtctctc ctgggacaac tagggtcgc aatctagagg agggggcagg ctgagggtcg tgggaaagg gagtagggtg ggaacactg agaaagagg agggacctaa agggactacc tctgtgcct gccacattaa attgataaca tggaaatgaa aaaaaaaaa aaaa 1 MGTEATEQVS WHYSGDEED AYSAEPLPEL CYKADVOAFS RAFQPSVSLT VAALGLANG P LVLATHLAAR RAARSPTSAH LLQALADIL LALITPFAA GALQWSLGS ATCRTISGLY SASFHAGFLF LACISADRYV AIARALPAGP RPSTPRAHL VSVIWL LSL LLALPALIFS QDQREGQRR CRLIFFEGLT QTVKGASAVA QVALGFALPL GVMVACYALL GRTLLAARGP ERRRALRWV ALVAAFVTLQ LPYSLALLLD TADLLAARER SCPASKRKDV ALLVTSGLAL ARCGLNPLY AFLGLRFRQD LRLLRGSS PSQPQPRRG PRRLSSCS APETHLSLW DN	Homo sapiens
258	3857	G Protein- Coupled Receptor GPR20	NM_005293	atgcctctg tgtctccagc ggggcctctg gccggggcag tcccaatgc caccgcagtg A acaacagtgc ggaaccaatgc cagcgggctg gagtgcccc tgttccacct gttgccccg ctggacgagg agctgcatg cacttccca ggcctgtgctg tggcgtgat ggcggtgcac ggagccatct tctggcagg gctgtgctc aacgggctg cgtgtacgt cttctgtgc cgcaaccggg ccaagacacc ctacgtctc tacaccatca acctggtgt gaccgatcta ctggtagggc tctccctgcc cagcgcttc gctgtgtact acggcgccag ggcgtgctg cgctgtgct tcccgacgt cctcggttac ttcctcaaca tgcactgctc catctcttc ctcaactgca tctgctgga ccgtacctg gccatctg gcgccgaag tcccgccgc tgcggccagc ctgctgtgc caggccctg tggccttgc tgtgctggc cgccgtgctc gtcaacctgt cgggtgctgg cgtgacagg agccggcct gctgcctgt ctttgctg actgtcctg agttcctgt gccctgctg gtcactagcg tgtttaccg ccgcatcatg tgtgactgt cgcggccgg tctgtccac caggtctgc agcgccgt gcgggcatg cagctcctgc tcacgtgt cctatcttt cctgtctgt tcacgctt ccacgccgc caagtggcg tggcgtgtg gccacatg ccacaccaca cgacctcgt ggtctaccac gtggccgtga cctcagcag cctcaacag tcatggacc ccactgtcta ctgctcgtc accagtggct tccaggccac cgtccgagg ctcttcggcc agcacggaga gcgtgagccc agcagcgtg acgtggctcag catgcacagg agtcccaagg gctcaggccg tcatcacatc	Homo sapiens

259	3857	G Protein- Coupled Receptor GPR20	NP_005284.1	ctcagtgccg gccctcagc cctcacccag gccctggcta atggggccga ggcttag GAIFLAGLVL NGLALVFECC RTRAKTPSVI YTINLVVTDL LVGLSLPTRF AVYGGARGCL RCAFFPHVLGY FLNMHCISILF LTCICVDRL AIVRPEAPAA CRQPACARAV CAFWLAAGA VTLVLGVGTG SRPCCRVPFAL TVLEFLPLL VISVFTGRIM CALSRPGLLH QGRQRRVRAM QLLLTVLIIF LVCFTPFHAR QVAVALWPDV PHHTSLVVYH VAVTLSSLNS CMDPIVYCFV TSGFQATVRG LFGQHGGERP SSGDVSMHR SSKSGSRHHI LSAGPHALTQ ALANGPEA atgaactcca cctggatggg taatcagagc agccaacctt ttgacctctt ggcatttggc A tatttggaaa cctgtcaattt ttgacctttg gaagatttga ttattgtctt tctaactgta ttgattattt cttggcaacat cattgtgatt ttgtatttc cttgtgcacc ttgttggaa catcacacta caagtattt tatccagact atggcatatg ctgacctttt ttgtgggtg agctgggtgg tcccttctt atcactctc catcacccc ttccagtaga ggagtcctg acttggcaga tatttgggtt tggatgata gtctgaaga gctctccat ggcttctctg gcctgtatca gaattgtag atacattggc attataaac ctttaacct taatactctg gttacacct ggagactacg cctgtgtatt ttctgattt ggctatact gacctggct ttcctgacct ctttttcca ctggggcaaa cctggatata atggagatgt gtttcagtgg tgtgcggagt cctggcacac cgactcctac ttacacctgt tcatcgtgat gatgtatat gcccagcag ccttattgt ctgcttcacc tatttcaaca tctccgcat ctgccaaacg cacacaaagg atatcagga aaggcaagcc cgcttcagca gccagagtgg ggagactggg gaagtgcagg cctgtcctga taagcgtat gccatgttcc tgtttcgaat cactagtgt ttttacatcc tctggttggc atatatcacc ttgcttctgt tggaaagctc cactggccac agcaaccgt tgcctacct cttgaccacc ttgcttggta ttagtaaacg tttctgcaac tgtgtaattt atagtctct caacagtgt taaccaagag gactaaagc cctctcaggg gctatgtga cttcttggc aagtcagact acagccaacg accttacac agttagaagc aaaggccctc ttaatggatg tcatatctga MNSTLDGNQS SHPFCLLAG YLETVNFCIL EVLIIVFLTV LIISGNIIVI FVFHCAPLIN P HHTTSYFIQT MAYADLFVGV SCWPSLSIL HHPLPVEESL TCQIFGFWS VLKSVSMASL ACISIDRYIA ITPPLTYNTL VTPWRLRLCI FLIWLSTLV FLPSFFHWGK PGYHGDVFW CAESWHTDSY FTLFIVMMLY APAALIVCFT YFNIFRICQQ HTKDISERQA RFSSQSGETG EVQACPDKRY AMVLFRITSV FYILWLPYII YFLESSTGH SNRFASFLT WLAISNSFCN CVIYSLSNSV FQGLKRLSG AMCTSCASQT TANDPYTVRS KGPLNGCHI atgtgtttt cctccattct ggaatacaac atgcagtctg aatctaacat tacagtgcga A gatgacattg atgacatcaa caccaatag taccacacc tatcatatcc gtttagcttt caagtgtctc taccggatt tcttatgtta gaaattgtgt tgggacttgg cagcaacctc actgtattgg tactttactg catgaaatcc aacttaata actctgtcag taacattatt acaatgaatc ttcatgtact tggatgata atttgggtgg gatgtattcc tctaactata gttatccttc tgccttctact ggagagtaac actgctctca ttgtctgttt ccatgaggt tgtgtatctt ttgcaagtgt ctcaacagca atcaacgttt ttgctatcac ttgtgacaga tatgacatct ctgtaaaacc tgcaaacoga atctgacaa tgggcagagc tgtaattgta atgatatcca ttgtgatttt ttctttttc tcttctctga ttcttttat tgaggtaaat	Homo sapiens
260	3858	G Protein- Coupled Receptor GPR21	NM_005294		Homo sapiens
261	3858	G Protein- Coupled Receptor GPR21	NP_005285.1		Homo sapiens
262	3859	G Protein- Coupled Receptor GPR22	NM_005295		Homo sapiens

263	3859	G Protein- Coupled Receptor GPR22	NP_005286.1	<p>tttttcagtc ttcaaatggtg aaatacctgg gaaaacaaga cacttttatg tgtcagtaca aatgaatact acactgaact ggaatgtat taccactgt tagtacagat ccaaatattc tttttcactg ttgtagtaat gtaatacaca tacaccaaaa tacttcaggc tcttaatat cgaataggca caagattttc aacaggggcag aagaagaag caagaagaa aagacacaatt tctctaacca cacaacatga ggtacagac atgtcaciaa gcagtgggtg gagaaatgta gtccttggtg taagaacttc agtttctgta ataattgcc tccggcgagc tgtgaaacga caccgtgac gacgagaaag acaaaagaga gtcttcagga tgtctttatt gattatttct acatttttc tctgctggac accaatttct gttttaata ccaccatttt atgtttaggc ccaagtgacc ttttagtaaa attaagattg tgttttttag tcatggctta tggaaacaact atatttcacc cttattata tgcatttact agacaaaaa ttcaaaaggc cttgaaaaagt aaaaatgaaa agcgagttgt ttctatagta gaagctgac cctgcctaa taatgctgta atacacaact cttgatataga tcccaaaaga acaaaaaa ttaccttga agatagtga ataagagaaa aacgttttagt gctcaggtt gtcacagact ag</p>	Homo sapiens
264	3860	G Protein- Coupled Receptor SLC/MCH1	NM_005297	<p>atgttgtgtc cttcaagac agatggctca gggcactctg gtagattca ccaggaaact A catggagaag ggaagaaggga caagattagc aacagtgaag ggaggagaa tgggtggaga ggattccaga tgaacggtg gtcgctggag gctgagcatg ccagcaggat gtcagttctc agagcaaac ccatgtcaaa cagccaaacg ttgctcttc tgtccccagg atcacctct cgacaggga gcatctccta catcaacatc atcatgctt cgggtgttcg caccatctgc ctcctgggca tcatcgggaa ctccacggtc atcttcgag tctggaagaa gtccaaagctg cactggtgca acaacgtccc cgacatcttc atcatcaacc tctcgtagt agatctctc tttctcctgg gcatgcccct catgatccac cagctcatg gcaatggggt gtggcacttt ggggagacca tgtgacacct catcacggcc atggatgcca atagtcagtt caccagacc tacatcctga ccgcacatg ccatgaccgc tacctggcca ctgtccacc catctcttc acgaagtcc ggaagccctc tgtggccacc ctgggtgatc gctcctgtg ggcctctcc ttcatcagca tcaccctgt gtggctgtat gccagactca tcccttccc aggagtgca gtgggtgcy gcatacgcct gcccaaccca gacactgacc tctactggtt caccctgtac cagtttttcc tggcctttgc cctgcctttt gtggtcatca cagccgcata cgtgaggatc ctgcagcgca tgacgtcctc agtggccccc catcgccatc tgtctggtct tctttgtgtg ctggcgaca aagaggtgta ccgcacacgc catcgccatc atcagcgccc cgaccctcac ctttgtctac tactatgtc tacagctgac ccagttgtcc atcagcgccc gacccctcac ctttgtctac ttatacaatg ccgcatcatg cttgggctat gccaacagct gctcaaccc ctttgtgtac atcgtgctct gtgagacgtt ccgcaaacgc ttggtcctgt cgggtgaagcc tgcagcccag gggcagcttc gcgctgtcag caacgctcag acggctgacg aggagaggac agaaaagaaa</p>	Homo sapiens

265	3860	G Protein-Coupled Receptor SLC/MCH1	NP_005288.1	gpcacactga MLCPSKYDGS GHSGRIHQET HGEGRKDKIS NSEGRENGGR GFQNMGGSLAEAHASRMVLP RAKPMNSQR LLLSPGSP RTGSISYINI IMPSVGTIC LLGIGNSTV IFAVVKSKL HWCNNVPDIF IINLSVDLL FLGMPFMIH QLMNGVWHF GETMCTLITA MDANSQFTST YILTAMADR YLATVHPIS TKFRKPSVAT LVICLLWALS FISITPWLY ARLIPFGGA VGCGRLEPN DTDLYWFTLY QFFLAFALPF WITAAVRI LQMTSSVAP ASQRSIRLRT KRVTATAI CLVFFVCWAP YYVLQTLQS ISRPTTFVY LYNAAISLGY ANSCLNPFVY IVLCETFRK LVLVSKPAAG QQLRAVSNAQ TADEERTESK GT atggcccccagagagcctg gaggcccccag cggggtcag cggcctggga ctactcggg A ttggacggcc tggaggagct ggagctgtgt ccggcggggg acctgcccta cggctacgtc tacatccccc cgtctacct ggcgccctc cggcgcccg cggcggtggg tggatacctt cgtgctgcac gtgtggtgc tggcggggcgt gacacctggg cttcgtgtc cggcgcccg tggggccgc ggcggcggt ctggcgcgag cggcggtcgg cgtggtcgg cgtggtcgg tgaagctca gcaagttcgc gctggcgggc aggcgccgt ggcggtcgg cgtggtcgg gcatgagcg tggaccgcta cctggcggtg acgcgctcgg cggcgcgct gctgctggc gccactgcg acccgcgct ggcctcacc ggggttcag gtgaagctgc tggagcgag cgtggcgct gctggcgcg cagccagtc cctccacgc cttccagggc ggcgtcggg cgtggcgct gctggcgcg cagccagtc gctgctccc tggctaccg ggggttcag ccctgctcgt gggcgagga cagccagtc ggcagagtc cctccacgc cttccagggc ctcagcttcg tctgctgct gctgacctc gctgctccc gctgctccc cctctctgc tactgcgca tctgcgccc cctgcgacg cgcgcggc ggggtcggg cggaggaac tcgctgcgca tcatcttcg catcgagag cgtttgtgg gctcctggct gcccttcagc gccctcggg cgtcttcca cctggcgct cctggcgcg cgcgcggc gctcctggct ggcctcctg ctgctggcg tgcgctggg cctcaccat gccacctgc tggccttcg caacagctgc gccaacccg tcatctacct cctgctggc cgtcattcc gacccggcg gctggagcg gcctcggcg gcacggcg cctggcgcg aggatcagc cagcctcct cgtctccag gacgacagtt cgtgttcg ttgcggggc cagcgcgcg acactgcctc ggcctcctg tag	Homo sapiens
266	3861	G Protein-Coupled Receptor GPR25	NM_005298	atggcccccagagagcctg gaggcccccag cggggtcag cggcctggga ctactcggg A ttggacggcc tggaggagct ggagctgtgt ccggcggggg acctgcccta cggctacgtc tacatccccc cgtctacct ggcgccctc cggcgcccg cggcggtggg tggatacctt cgtgctgcac gtgtggtgc tggcggggcgt gacacctggg cttcgtgtc cggcgcccg tggggccgc ggcggcggt ctggcgcgag cggcggtcgg cgtggtcgg cgtggtcgg tgaagctca gcaagttcgc gctggcgggc aggcgccgt ggcggtcgg cgtggtcgg gcatgagcg tggaccgcta cctggcggtg acgcgctcgg cggcgcgct gctgctggc gccactgcg acccgcgct ggcctcacc ggggttcag gtgaagctgc tggagcgag cgtggcgct gctggcgcg cagccagtc cctccacgc cttccagggc ggcgtcggg cgtggcgct gctggcgcg cagccagtc gctgctccc tggctaccg ggggttcag ccctgctcgt gggcgagga cagccagtc ggcagagtc cctccacgc cttccagggc ctcagcttcg tctgctgct gctgacctc gctgctccc gctgctccc cctctctgc tactgcgca tctgcgccc cctgcgacg cgcgcggc ggggtcggg cggaggaac tcgctgcgca tcatcttcg catcgagag cgtttgtgg gctcctggct gcccttcagc gccctcggg cgtcttcca cctggcgct cctggcgcg cgcgcggc gctcctggct ggcctcctg ctgctggcg tgcgctggg cctcaccat gccacctgc tggccttcg caacagctgc gccaacccg tcatctacct cctgctggc cgtcattcc gacccggcg gctggagcg gcctcggcg gcacggcg cctggcgcg aggatcagc cagcctcct cgtctccag gacgacagtt cgtgttcg ttgcggggc cagcgcgcg acactgcctc ggcctcctg tag	Homo sapiens
267	3861	G Protein-Coupled Receptor GPR25	NP_005289.1	MAPTEWSPS PGSAPWDYSG LDGLEELELC PAGDLPYGV YIPALYLA AFVGLLGNFV P VWLLAGRRP RRLVDTFVLH LAAADLGFVL TPLMAAAA RRWPFPGDL CKLSTFALAG TRSAGALLA GMSVDRLAV VKLEAREPLR TPRCAVASCC GWAVALLAG LPSLVYRGLQ PLPGGQDSQC GEPSHAFQG LSLLLLLTF VLPVVTLC YCRISRLRR PPHVGRARN SLRIIFAIES TFVGSWLPFS ALRAVFLAR LGALPLCPPL LLALRWGLTI ATCLAFVNSC ANPLYLLD RSFRARALDG ACGRTRLAR RISSASSLSR DDSVFRCA QAANTASASW atgatgtggg gtgcaggcag cctctggcc tggctctcag ctggctcag caactgaat A gtaacagcg tgggcccag agagggccc acaggtccag cgcaccact gccctgcct aaggcctgg atgtgtgct cgtcatctca ggcacctgg tgcctcga gaatgcgcta gtggtggcca tcatctggg cactcctgc cctcctgccc ccatgttcc gctggtggc agcctggcg tggcagacct gctggcagg cttggcctgg tctgcaact tctgctgtc ttctgcatc gctcagcga gatgagcct gctgctgtg gctgctggc aatggcctt accgcccagc tggcagctc actggccatc actgctgacc actgcttct tctgtacat	Homo sapiens
268	3862	G Protein-Coupled Receptor GPR3	NM_005281	atgatgtggg gtgcaggcag cctctggcc tggctctcag ctggctcag caactgaat A gtaacagcg tgggcccag agagggccc acaggtccag cgcaccact gccctgcct aaggcctgg atgtgtgct cgtcatctca ggcacctgg tgcctcga gaatgcgcta gtggtggcca tcatctggg cactcctgc cctcctgccc ccatgttcc gctggtggc agcctggcg tggcagacct gctggcagg cttggcctgg tctgcaact tctgctgtc ttctgcatc gctcagcga gatgagcct gctgctgtg gctgctggc aatggcctt accgcccagc tggcagctc actggccatc actgctgacc actgcttct tctgtacat	Homo sapiens

269	3862	G Protein- Coupled Receptor GPR3	NP_005272.1	gacctcacct actattcaga gacaacagtg acacggacct atgtgatgct ggccttagtg tggggaggtg ccctgggctt ggggctgtgt cctgtgtgtg cctggaactg cctggatggc ctgaccacat gtggcggtgt ttatccactc tccaagaacc atctgtagt tctggccatt gccttcttca tgggtgtttg catcatgtg cagctctacg cccaaatctg cgcctatgct tgccgccatg ccagcagat tgcccttcag cggcacctgc tgcctgcctc ccaatatgtg gccaccgca aggcattgc cacactggc gtgggtgtg gagectttgc cgcctgtgg ttgcccttca ctgttactg cctgtgtgtg gatgccact ctccactct ctacacat cttacctgc tccctgccac ctacaactcc atgataacc ctatcatcta cgccttcgc aaccaggatg tgcagaaagt gctgtgggt gctgtgtgt gctgttctc ttccaagatc ccctccgat cccgtccccc cagtgtgtc tag VVAIIIVGTPA FRAPFLIVG WLSAGSNVN VSSVGPAGRP TGPAAPLPSP KAWDVVLICIS GTLVSCENAL P TASIGSLLAI TVDRYLSLYN ALTYSETTV TRTYVMIALV WGGALGLGLL PVLAWNCLDG LTTGCVVYPL SKNHLVLA IAFMWFGIML QLYAQICRIV CRHAQOIALQ RHLLPASHYV ATRKGIAFLA VLGAFACW LPFTVYCLLG DAHSPPLYTY LTLLEPATYNS MINPIIYAFR NQDVQKVLWA VCCSCSSKI PFRSRSPSDV	Homo sapiens
270	3863	G Protein- Coupled Receptor GPR31	NM_005299	atgccattcc caaactgctc agccccagc actgtgtgtg ccacagctgt ggggtgtctg A ctggggctgg agtgtgggt gggctgtgtg ggaacgcgg tggcgtgtg gaccttctg ttccgggtca ggtgtgtgaa gccgtacgt gtctacactg tcaactggc cctggctgac ctgctgttg gctgtgtg cctttctc gctttctc cgccttctc tggacctcag ccgacgcgtg catctggcc gtgtgggtg ctgggcccgt cgtggcttg gaccgtacc tccgtgtgtt ccacctcgg gggatggct tctggccgc tctcaggcg gccctgggg tctggggct cgtctggctc cttaaggta acctgtgtc tctcaggcg gccctgggg ctcatctct agccgcgcca gaactccac ctgatggctg cctcacctg cccggcctg ctcatctct ggtctctca gcatcatct gcaggagca aggtgccaca gtttctact cagggcagac ggtctctca ggtctctc tgttctgcaa tgcaggcatc ctctctgccc ttcagtgtt gctccccctt ggcctcatc cctgagaaac agccaaagt tcagcggcc atcagggtc tccagaaaag actccggag cctgagaaac agccaaagt tcagcggcc caggcactgg tcaacttgt ggtgtgtgt tttgtctgt gctttctg cctgttctg gccagagtcc tgatgcacat ctccagaaat ctgggagct gcagggccct ttgtcagtg gctcatacct cggatgtcac gggcagcctc acctacctg acagtgtct caaccctg gtatactgt tctccagccc cacttccag agtctctat ggagggtctt ccacacctc cgaggcaaa ggcaggcagc agagccccca gattcaacc ccagagactc ctattctga LIIAACLPEL AAFYLSLQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLLSPQA ALGVSGLVWL LMVALTCPLG LISEAAQNST RCHSFYSRAD GSFSIIWQEA LSCLOFLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVAVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSHVNPV VYCFSSPTFR SSYRRVFHTL RGKGAEEPP DFNPRDSYS	Homo sapiens
271	3863	G Protein- Coupled Receptor GPR31	NP_005290.1	cgaggcaaa ggcaggcagc agagccccca gattcaacc ccagagactc ctattctga P MPFPNCAPS TVVATAVGL LGLECGLGLL GNAVALWTFE FRVRWKPYA VYLLNLALAD LIIAACLPEL AAFYLSLQAW HLGRVGCWAL RFLDLRSV GMAFLAAVAL DRYLRVHPR LKVNLLSPQA ALGVSGLVWL LMVALTCPLG LISEAAQNST RCHSFYSRAD GSFSIIWQEA LSCLOFLPF GLIVFCNAGI IRALQKRLRE PEKQPKLQRA QALVTLVAVL FALCFLPCFL ARVLMHIFQN LGSCRALCAV AHTSDVTGSL TYLHSHVNPV VYCFSSPTFR SSYRRVFHTL RGKGAEEPP DFNPRDSYS	Homo sapiens
272	3864	G Protein- Coupled Receptor	NM_005282	ctggtgacct tacttatctc tgttgtcttc tggggtctc ggaatgcca gcactccac A ccacattgcc tgaactttcc aacactccct agctgcgtg tgcctatct caacacttcc tcatgtattt ctgtgtctt ctagaacatt ccccgccat tattacttca atatggctac	Homo sapiens

GPR4

acatacttcc taattgcccct goaaaccatc tecttctcâc cattgcccag cgatgctttc
 gtctcctcca taaacactcc cggagaccaa tttttgtgtc acccoatac tccctcgttg
 acacactgac tccatacata acctccttga aaaacctttt tattaatctc accatcctcc
 agacttccct cctgtcataa ttccatccct cctccaactt ttccctctca agctctgccc
 ttccagccc agcccagcct acccaacctc atctcttccc tgtagaccac atcccaccat
 gtcccccga gctccaaag aaggggctca gggggcccca tggcctccc ctcctgtgg
 cccacagccc cccgtgggcc aggggaagcg cccagaagc cgaagtgcc accatgggca
 accacacgtg ggagggtgc cactggact cccgcgtgga ccactcttt ccgcatccc
 tctacatctt tgtcatcgcc gtggggctgc ccaccaactg cctggctctg tggcggcct
 accgcccaggt gcaacagcg aacgagctgg gcgtctacct gatgaacctc agcatcgcc
 acctgctgta catctgacg ctgcccgtgt gggtgacta cttcctgcac cagcaaat
 g gatccacgg cccgggtcc tgcaagctct ttgggttcat cttctacacc aatatctaca
 tcagcatcgc cttcctgtgc tgcattctcg tggacgcta cttggctgtg gccaccacc
 tccgcttcgc ccgctcgc cgcgtcaaga ccgcctggc cgtgagctcc gtggtctggg
 ccacggagct ggcgcccaac tggcgcccc tgttccatga cgaactcttc cgagaccgct
 acaaccacac cttctgtctt gagaagtcc ccatgggaag ctgggtggcc tggatgaacc
 tctatcggtt gtctgtggc ttccctcttc cgtggcgct catgtgtg tctgaccggg
 gcatcctgcg ggcgtgccc ggcagcgtgt ccacgcgtc caggagaag gccaaatca
 agcggtggc cctcagcctc atcgccatcg gctgtgtctg ctttgcgcc tatcacgtgc
 tcttgtgtc ccgagcgcc atctacctgg gcccgcctg ggaactgcgc ttcgaggagc
 ggtcttttc tgcataccac agtcaactgg ctttaccag cctcaactgt gtggcgacc
 ccactccta ctgcctggtc aacgagggcg ccgcagcga tgtggccaag gccctgcaca
 acctgctccg ctttctggc agcacaagc ccagagat gcccaatgcc tgcctaccc
 tggagacccc actcacctcc aagaggaaac gcacagccaa agccatgact ggcagctggg
 cggccactcc gccctcccag ggggaccagg tgcagctgaa gatgctgcc ccagcacaat
 gaaccccag tggcacagaa tcccagttt tccctctca tcccacagtc ccttctctcc
 tggctgtgtg tatgcaaat gtatggaaaa agggctgtgt taatatctat aagaatacaa
 gaacttagga agagttaggt tgggtgttca ctggtcaacc tttgtgtcc cagatcccat
 cacagtittg cgattgtga gggcctcctg aagaggaga tgagtaata tatttttttg
 gagacaggtt ctcactgtgt tggccaggct ggaagtgcagt agtgcagtc tggctcactg
 cagctccac ctctgggt ctccagcgt ctccacat cagcctccc agtagctggg
 accacaaatg tgagcccac catgctggc taattttgt actttttga taaatggagt
 ctactatgt ttccccagg tgatcttga ctcctgggt caagagatcc tctgctctg
 gcctcccaa gtgctcagat tagagatgt agcgccatg tctggccaga taaatgaagt
 caacatttg gtttccagaa aataaagaca aatagagaag gttagatttt tttttcca
 caaagtggat aaaagtctgt gactcggggg aaagtggag gagaaatgca gccgatag
 agtcattatg ttgcaaac cctcggtcat acaggccagg gaacataaga ccgcaattct
 aagtttctag ataaacagc atctccaagt caagactgag gatgaagagg gagaatgtca
 gaactcaagt gaagggcaat cagggcagac tgcctggagg agtgcagcca gaagtttgg
 gaagaaaggt tgggacaaga agaaagggt tttattcatt cattcaacag aggtttatgt
 agggcactgt gctgggtggg gctggggaca caacaatgac tgaggcgacc tggccttgcc

273	3864	G Protein- Coupled Receptor GPR4	NP_005273.1	ttcacaggcc tcaccatata caagtaata aaaaatatgt aatgtttgga attgct IADLLYICTL PLWVDYFLHH DNWIHGPSC KLFGEFFYTN IYISIAFLCC ISVDRYLAFA HPLREARLRR VKTAVAVSSV VMATELGANS APLFHDLEFR DRYNHTFCFE KFPMEGWVAW MNLRYRVFVG LFPWALMLLS YRGILRAVRG SVSTERQEK KIKRLALS LI AIVLVCFAFY HVLNLSRSAL YLGRPWDCGF EERVESAYHS SLAFTSLNCV ADPILYCLVN EGARSDDVAKA LHNLLRFLAS DKPQEMANAS LTLETPLTSK RNSTAKAMTG SWAATPPSQG DQVQLKMLPP AQ	Homo sapiens
274	3866	G Protein- Coupled Receptor GPR6	NM_005284	atgaacgcga gcgcgcctc gctcaacgac tcccaggtgg tggtagtggc gcccgaagga A gcggcgccgg cgccacacagc agcagggggg cggaatgggg accccctgct gcggcgctc taggagccgg cggcgagctc aatgggtctc tgagactgtc ctcgcagctg tcggctgggc caccggact cctgtgcga cgggtgaatc cgtgggacgt gctcctgtgc gtgtcgggga cagtgatgc tggagaaaa cgcgtggtgg tggcgctcat cgcgtccact ccggcgctgc gcacgcccc gtctgtgctg taggcagcc tggccacgc tgacctgttg gcgggctgtg gcctcatctt gcactttgtg ttccagtact tgggtccctc ggagactgtg agtctgtca cgggtggcct cctcgtggcc tccctgcgg cctctgtcag cagcctgctg gccattacgg tggaccgcta cctgtccctg tataacgcgc tcacctatta ctcgcgcgg acctgttgg gogtgcact cctgttgcc gcaacttggc ccgtgtccct aggcctgggg ctgtcgccc tgctgggctg gaactgctg cagagcgcg ccgctgtcag cgtggtgcgc ccgctggcgc gaagccacgt ggctctgctc tccgcgcgt tcttcattgt cttcggcac atgtgcacc tgtactgtgc catctgccag cctgtctggc gccacgcga ccagatcgcg ctgcagcagc actgcctggc gccacccat ctegtgccca ccagaaaagg tgtgggtaca ctggctgtgg tgcgtggcac ttctggcgcc agctggctgc ccttcgccat ctattgctg gtggcgagcc atgaggaccc ggcggtctac acttacgcca cctgtgtgcc cgccacctac aactccatga tcaatcccat catctatgcc ttccgcaacc aggatgcc cgcgcctgtg tggtcctcgc tctgtggctg tttccagtc aaagtgcct ttcgttccag gtctccagc gaggtctga	Homo sapiens
275	3866	G Protein- Coupled Receptor GPR6	NP_005275.1	gaggtctga SAGPGLLLP AVNPWDVLLC VSGTVIAGEN ALVVALLIAT PALRTPMFVL VGSLATADLL AGCGLIHVF FQYLPSETV SLLTVGFIVA SFAASVSSLL AITVDRLSL YNALTYSRR TLLGVHLLA ATWTVSLGL LLPVLGNCL AERRACSVR PLARSHVALL SAAFFMVFGI MLHLYVRICQ VVWRHAHQIA LQQHCLAPPH LAATRKGVGT LAWLGTFGA SWLPFAIYCV VGSHPDPAVY TYATLLPATY NSMINPIYA FRNQEIQRAL WLLLCGCFQS KVPFRSRSPS EV	Homo sapiens
276	3867	G Protein- Coupled Receptor GPR7	NM_005285	atggacaaac cctcgttctc ggagccctgg ccgcaccaacg catcgggccc ggaccggcg A ctgagctgct ccaacgcgc gactctggcg ccctgtccgg cgcgctggc ggtgctgta ccagtgtct acgcggtgat ctgcgccgtg ggtctggcg gcaactccgc cgtgctgtac gtgttgctgc gggcgcccc catgaagacc gtaccacac tgttcacct caacctggcc atcgccgacg agctcttacc gctggtgctg cccatcaaca tcgccgactt cctgctgctg cagtggccct tcggggagct catgtgcaag ctatcgctgg ctatcgacca gtacacacc	Homo sapiens

277	3867	G Protein- Coupled Receptor GPR7	NP_005276.1	<p>ttctccagcc tctacttctt caccgtcatg agcgccgacc gctacttggt ggtgttgccc actgaggagt cgcgcggggt ggccggcgcg acctacagcg ccgcgcgcgc ggtgagcctg gccgtgtggg ggatcgtcac actcgtctgtg ctgcctctcg cagtcttcgc ccggctagac gacgagcagg gccgcgcgca gtgcgtgcta gtctttccgc agcccgaggc cttctggtgg cgcgcgagcc gccctacac gctcgtgctg ggcttcgcca tcccgtgtc caccatctgt gtcctctata ccacctgct gtgcgggtg catgccatgc ggctggacag ccacgccaaag gccctggagc gcgccaagaa gcgggtgacc ttcctgtggg tggcaatcct ggcggtgtgc ctcctctgct ggagcccta ccaactgagc accgtggtgg cgtcaccac cgacctcccg cagacgcgcg tggctcatgc tatctctac ttcateacca gctgacgta cgccaacagc tgcctcaacc ccttctcta cgccttctcg gacgceagct tccgcaggaa cctccgccag ctgataactt gccgcgcgcg agcctga</p> <p>MDNASFSEPW PANASGPDPA LSCSNASTLA PLPAPLAVAV PVVYAVICAV GLAGNSAVLY P VLLRAPMKMT VTNLFILNLA IADELFTLVL PINIADFLLR QWPFELMCK LIVAIDQYNT FSSLYFLTVM SADRYLVWLA TAESRRVAGR TYSAAARAVSL AVWGIVTLV LPFAVFAFLD DEQRRQCVL VFQPEAFW RASRLYTLVL GFAIPVSTIC VLYTLLCRL HAMRLDSHAK ALERAKRVT FLVVAILAVC LLCWTPYHLS TWALTDLDP QTPLVIAISY FITSLTYANS CLNPFLYAPL DASFRNLRLQ LITCRAAA</p>	Homo sapiens
278	3868	G Protein- Coupled Receptor GPR8	NM_005286	<p>atgcaggccg ctgggcaccc agagccctt gacagcagg gctccttctc cctccccacg A atgggtgcca cgtctctca ggacaatggc actggcaca atgcacatt ctcgagcca ctgccgttc tctatgtct cctgcccgc gtgtactgct ggtctgtg tgtggggctg actggcaaca cggcgctcat ccttgtaac ctaaggcgc ccaagatgaa gacggtgacc aacgtgttca tctgaaact ggccgtcgcc gacgggtctt tcacgtggt actgcccgtc aacatcgcg agcaactgct gcagtactgg ccttcgggg agctgctctg caagctgggtg ctggcgtcg accatacaa catcttctcc agcatctact tctagccgt gatgagcgtg gaccgatacc tgggtgtgct ggccaccgtg aggtcccgcc acatgccctg gcgcacctac cggggggcga aggtcgccag cctgtgtgc tggctggcg tcacggtcct ggttctgccc ttcttctt tgcgtggcgt ctacagcaac gagctgcagg tcccaagctg tgggctgagc ttcccgtygc ccgagcgggt ctggttcaag gccagccgtg tctacacttt ggtcctgggc ttcgtctgc ccgtgtgcac catctgtgtg ctctacacag acctctgcg caggctgcgg gccgtggcg tccgctctgg agccaaggct ctaggcaagg ccaggcgga ggtgaccgtc ctggtcctcg tegtgtggtg cgtgtgctc ctctgtgga cgccttcca cctggcctct gtcgtggccc tgaccacgga cctgcccag accccactgg tcatcagat gtcctacgtc atcacagcc tcaactacgc caactctgct ctgaacctt tctctacgc cttctagat gacaaattcc ggaagaactt ccgcagcata ttgcggtgct ga</p> <p>MQAAGHPEPL DSRGSFSLPT MGANVSQDNG TGHNTAFSEP LPFLYVLLPA VYSGICAVGL P TGNTAVILVI LRAPMKMTVT NVFILNLAVA DGLFTLVLPV NIAEHLLQYW PFGLLCKLV LAVDHYNIFS SIYFLAVMSV DRYLVVLATV RSRHMPWRTY RGAKVASLCV WLGVTVLVLP FFSEAGVYSN ELQVPSGLS FFWPERVWFK ASRVYTLVLG FVLVCTICV LYTDLLRRLR AVRLRSGAKA LGKARRKTV LVLVLAACL LCWTFPHLAS VVALTTDLPO TPLVISMVY ITSLTYANSC LNPFYAFLD DNRKNFRSI IRC</p>	Homo sapiens
279	3868	G Protein- Coupled Receptor GPR8	NP_005277.1		Homo sapiens

280	3869	G Protein- Coupled Receptor HM74	NM_006018	cgccactttg ctggagcatt cactaggcga ggcgctccat cggactcact agccgcactc atgaatcgcc accatctgca ggatcacttt ctggaatag acaagaagaa ctgctgtgtg ttccgagatg acttcattgc caaggtgttg ccgcgggtgt tgggcttggg gtttatcttt gggcttctgg gcaatggcct tgcctctggg attttctgtt tccacctcaa gtcctggaaa tccagccgga ttttctgtt caacctggca gtactgact ttctactgat catctgcctg ccgttcgtga tggactacta tgtcgcgct tcagactgga actttgggga catcccttgc ggcggtgtg tcttcattgt tggcatgaac cgccaggga gcatactctt cctcaggtg gtggcgtag acaggtattt ccgggtgttc catccccc acccctgaa caagatctcc aattggacag cagccatcat ctcttgcctt ctgtgggga tcaatgttgg cctaacagtc cacctcctga agaagaagt gctgatccag aatggccctg caaatgtgtg catcagcttc agcatctgcc ataccttcg gtggcacgaa gctatgttcc tccctggagt cctcctgccc ctgggcata tctgttctg ctccagcaga attatctgga gctgcggga gagacaaatg gaccggcatg ccaagatcaa gagagccatc accttcata tgggtgtggc catctcttt gtcatctgct tcttccccag cgtgtgtgtg cggatccgca tcttctggct cctgcacact tcgggcacgc agaattgtga agtgtaccgc tcggtggacc tggcggtctt tatcactctc agcttcacct acatgaacag catgctggac ccgtgtgtg actacttctc cagcccatcc ttcccaact tcttctccac ttgatcaac cgctgcctcc agagggaagat gacaggtgag ccagataata accgcagcac ggcgtcag ctccacaggg acccaacaa aaccagaggc gtccagagg cgttaattgg caactccgtt gaggcatgga gccctcttta totgggccc acctcaata accttccaa gaaggacat tgtcaccaag aaccagcatc tctggagaaa cagttgggct gttgcacga gtaatgtcac tggactcggc ctaagggttc ctggaaacttc cagattcaga gaattgatt tagggaact gtggcagatg agtgggagac tgggtgcaag gtgtgaccac aggaatcctg gaggaacaga gactaaagt tctaggcatc tgaacttgc ttcatctctg acgtcgcag gactgaagat gggcaaatg tagcggttc tctgagcag agttggagcc agagatctac ttgtgacttg ttggcctct tccacatct gccctcagact gggggggct cagctcctcg ggtgatctat agcctgcttg tgactctag cagggataag gagagctgag attggaggga attgtgttc tccctgggga agccaggga tcattaaaca agccagtgg tccctggct tccgtggacc aattcatctt tcagacaagc tttagagaaa tggaactcagg gaagagactc acatgctttg gtagtatct gtgttcccg tgggtgtaat aggggattag cccagaaagg gactgagcta aacagtgtta ttatgggaaa ggaatggca ttgctgcttt caaccagca ctaatgcaat ccattcctct ctgtttata gtaatctaag ggttgagcag ttaaaacggc ttcaggatag aaagctgtt cccactgtt tctgtttacc attaaaagg aaacgtgcct ctgcccacg gtagagggg gtgcaggtc ctcctggttc cttcgctgtt gttctgtac ttacaaaaa tctaccactt caataaattt tgataggaga caaaaaaaa a	Homo sapiens
281	3869	G Protein- Coupled Receptor HM74	NP_006009.1	LEIDKNCVV FRDDFIKVL PPVLGLEFFIF GLNGLALW IFCFLKSWK P SSRIFLENLA VADFLILICL PFVMDYYVRR SDWNFGDIPC RLVLFMFAMN RQSIIFLT VAVDRYFRV HPHALNKIS NWTAAIISCL LWGITVGLTV HLLKKLLIQ NGPANVCISF SICHTFRWHE AMFLLEFLP LGIILFCSAR IWSLRQRM DRHAKIKRAI TFIMVVAIVF VICFLPSVV RIRIFWLLHT SGTQNCVYR SVDLAFFITL SFTYMNMSLD PVVYFSSPS FPNFFSTLIN RCLQKMTGE PDNNRSTSV EALMANSNG EFWSPSYLGP	Homo sapiens

282	3870	G Protein- Coupled Receptor OGR1	NM_003485	TSNNHKKGH CHQEPASLEK QLGCCE. atggggaaca tcactgcaga caactcctcg atgagctgta ccatcgacca taccatccac A cagacgtgg ccccggtggt ctatgttacc gtgctggtgg tgggcttccc ggccaactgc ctgtccctct acttcggcta cctgcagatc aaggcccgga acgagctggg cgtgtacctg tgcaacctga cggtgccga cctcttctac atctgtcgc tgccttttg gctgcagtag gtgctgcagc acgacaactg gtctcagggc gacctgtcct gccaggtgtg cggcattctc ctgtacgaga acatctacat cagcgtgggc ttctctgtgt gcatctcgt ggaccgctac ctggctgtgg ccatccctt ccgcttccac cagtccgga ccttgaaggc ggccgtcggc gtcagcgtgg tcactctggc caaggagctg ctgaccagca tctacttctt gatgcacgag gaggtcatcg aggacgagaa ccagcaccgc gtgtgctttg agcactacc catccaggca tggcagcgcg ccatcaacta ctaccgttc ctggtgggt tctcttccc catctgcctg ctgctggcgt cctaccaggg cactctgcgc gccgtgcgc ggagccacgg caccagaag agcgcgaag accagatcca gccgtggtg ctacgacgc ttggtcatctt cctggcctgc ttctgcctt accagtgtt gctgtggtg cgcagcgtct gggagggcag ctgcgacttc gccaaagggc ttttcaagc ctaccacttc tctctctgc taccagctt caactgcgc gccgaccccg tgctctactg ctctgtcagc gagaccacc accgggacct ggccgcctc cgcggggctt gccctggcctt cctcacctgc tccaggaccg gccggggcag ggaggcctac ccgtgggtg ccccgaggc ctccgggaaa agcggggccc aggtgagga gcccgagctg ttgaccaagc tccaccggc ctccagacc cctaactgc cagggtcggc cgggttcccc acggcaggt tggcctag	Homo sapiens
283	3870	G Protein- Coupled Receptor OGR1	NP_003476.1	MGNITADNSS MSCITDHTIH QTLAPVVYT VLVGFPPANC LSLYFGYLQI KARNELGVYL P CNLTVDLFY ICSLPFWLQY VLQHDNWSHG DLSCQVCGIL LYENIYISVG FLCISVDYR LAVAHPRFH QFTLKAAG VSWIWAKEL LTSIYFLMHE EVIEDENQHR VCFEHYPIQA WQRINYYRF LVGLFPICL LLASYQGIIR AVRRSHGTQK SRKDIQIRLV LSTVWIFLAC FLPYHVLLV RSVWEASCD F AKGVENAYHF SLLTSTFNCV ADPVLYCFVS ETTHRDRLR RGACLAFLTC SRTGRAREAY PLGAPEASGK SGAQGEPEL LTKLHPAFQT PNSPGSGGFP TGRLA agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcggg gggccgggcc accagcacc tgatgttctg ggcgggtgtg gtgggcaacg ggtggccctt gggcattcctg agcgcaggc gaccggcgc cccctcggcc ttgcgggtgc tggtaaccgg actggcggcc accgacctgc tgggcaaccg ctctctgagc ccggcctgt tctgtggcta tgcgcgaac agctccctgc tgggcttggc ccgagggcgc cccgcctgt gcatgacctt cgccttcgcc atgaccttct teggcctggc gtccatgtct atctctttg ccatggcctt ggagcgtgc ctggcgctga gccacccta cctctacgcg cagctggacg ggcccgcctg cggccgcctg gcgtgccag ccatctacgc ctctgtcgc tcttctgag cgtgtccctt gctgggctg ggccaacacc agcagtactg ccccggaagc tgggtgttcc tccgcatgag ctggggccag ccggggcgcg ccgcttctc gctggcctac gccggcctgg tggccttctt ggtggtctgc atcttctct gcaacggctc ggtcacctc agcctctgcc gcatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcgc cgcaccggag aggacagggt ggaccacctg	Homo sapiens
284	3921	Prostacyclin Receptor	NM_000960	agcaagtga ggcacagacg caggggacag gagagcctgg gcaagactgg agagcccaga A cctgggatgg cggattcgtg caggaacctc acctacgtgc ggggctcggg gggccgggcc accagcacc tgatgttctg ggcgggtgtg gtgggcaacg ggtggccctt gggcattcctg agcgcaggc gaccggcgc cccctcggcc ttgcgggtgc tggtaaccgg actggcggcc accgacctgc tgggcaaccg ctctctgagc ccggcctgt tctgtggcta tgcgcgaac agctccctgc tgggcttggc ccgagggcgc cccgcctgt gcatgacctt cgccttcgcc atgaccttct teggcctggc gtccatgtct atctctttg ccatggcctt ggagcgtgc ctggcgctga gccacccta cctctacgcg cagctggacg ggcccgcctg cggccgcctg gcgtgccag ccatctacgc ctctgtcgc tcttctgag cgtgtccctt gctgggctg ggccaacacc agcagtactg ccccggaagc tgggtgttcc tccgcatgag ctggggccag ccggggcgcg ccgcttctc gctggcctac gccggcctgg tggccttctt ggtggtctgc atcttctct gcaacggctc ggtcacctc agcctctgcc gcatgtacc ccagcagaag cgccaccagg gctctctggg tccacggcgc cgcaccggag aggacagggt ggaccacctg	Homo sapiens

285	3921	Prostacyclin NP_000951.1 Receptor	atctgtgtgg cccatcatgac agtgggtcatg gccgtgtgtgt ccttgccctct cactgacccg tgcttcaccc aggtgtgtgc ccttgacagc agcagtga gaaggggaccc ccttgccctc cgcttctacg ccttcaaccc catcctggac ccttggtgtct tcatcctttt ccgcaaggtc gtcttccagc gactcaagct ctgggtgtgc tgcctgtgtcc tggggcctgc ccacggagac tcgaagacac ccttttccca gctcgcctcc gggaggaggg acccaagggc cccctctgtc ctgtgtggaa agggagggag ctgctgtgct ttgtcggctt gggcgaggg gcaggtggag cccttgccctc ccacacagca gtccagcggc agcgcgtgtg gaacgtgtc caaagcagaa gccagcgtcg cctgctccct ctgctgacat ttcaagctga cctgtgtatc tctgcccgtg cttcggggcga caggagccag aaaaacaggg acatggctga tggctgcgga tgcgtgaacc ttggccccc aactctgggg ccgacagct gctgtttctc ctgctggcagg gcagtcgtg ctggctctgg gaagagagtg agggacagag gaaacgttta tctgggagtg cagaaagaat ggttctctca aaataaccag tggcctggcc gacctgtctt ggcctggat tccccatcca tctcattgtc taaaatttta gaagcggag agttccctc aggttctgt acagtcaggt ctgctctgtg ctgggtgtg gctccaatct gctgccactt agggagccca actgccacc ccaagtccc aggggatgg cctcccctc taccagcca ctccaagagc cagccccctt tctgtccac aaaaaccaca gttattgaa aggtccctg ccttccctg ccgctgttcc cccaccaggc ttgggagccc tggcatccca agggggaac gggaggaagg ggagctgct gcattgtggg tgatgacgta ggacatgtgc ttggtacaaa aagggcctga gacattccac ct	Homo sapiens
286	3923	Prostaglandin D2 Receptor	LLGTSFLSPA VFVAYARNSS LLGLARGGPA LCDAFAMT FFGLASMLIL FAMAVERCLA LSHPYLYAQL DGPRCARIAL PAIYAFVLF CALPLLGLGQ HQYCPGSGW FLRMRWAPG GAFLSLAYAG LVALIVAAIF LCNGSVTLISL CRMVROQKRH QGSLGPRPRT GEDEVHLLIL LALMTVMMAV CSLPLTIRCF TQAVAPDSSS EMGDLAIFRE YAFNPILDPW VFILFRKAVF QRLKLWVCCL CLGPAHGDQS TPLSQLASGR RDRAPSAFV GKEGSCVPLS AWGEGQVEPL PPTQQSSGSA VGTSSKAERAS VACSLC gctgtgcaac ctggcgcca tgcgaacct ctatgcgatg caccggcggc tgcagcggca A cccgcgctcc tgcaccaggg actgtgccga gccgcgcgcg gacgggaggg aagcgtcccc tcagccccctg gagagcgtg atcacctctt gctgtgtggc ctgatgaccg tgccttccac tatgtgttct ctgccccgtaa ttatgcgcg ttaactatga gcatttaagg atgtcaagga gaaaaacagg acctctgaag aagcagaaga cctccgagcc ttgcgatttc tatctgtgat ttcaattgtg gacccttgga tttttatcat ttccagatct ccagttattc ggatattttt tcacaagatt ttcattagac ctcttaggta caggagcggg tgcagcaatt ccactaacat ggaaatccagt ctgtgacagt gtttttcaat ctgtggtaag ctgaggaata tgtcacattt tcagtcaaaag aacca	Homo sapiens
287	3923	Prostaglandin D2 Receptor	MKSPFYRCQN TTSVEKGNSA VMGGVLFSTG LLGNLLALGL LARSGLWCS RRPLRLPSV P FYMLVCLTV TDLLGKCLLS PVVLAAYQN RSLRVLAPAL DNSLQAFAP EMSFFGLSST LQLLAMALEC WLSLGHPPFY RRHITRLGA LVAPVVSFAS LAFCALPMFG FGKFTQYCPG TWCIFIQWHE EGSLSVLGYS VLYSSIMALL VLATVLCNLG AMRNLYAMHR RLQHRPSCT RDCAEPRADG REASQPLEE LDHLLILLALM TVLFTMCSLP VIYRAYGAF KDVKENRST EEAEDLRALR FLSVISIVDP WIFIFRSPV FRIFHKIFI RPLRYRSRCS NSTNMESL	Homo sapiens

[illegible]

291	3925	Prostaglandin E Receptor EP2	NP_000947.1	<p> tgcgtgcgc tgcgtgacta tgggcagtag gcccgggac ctggtgcttc atccggacg ggcggaccg ttacctgcag ctgtacgca cctgtctgt gcttctcatt gtctcgtgc tgcctgcga cttcagtgct atttcaacc tcatccgcat gcaccgcga agccggagaa gccgtgcgg accctccctg ggcagtgccc gggcgggccc cggggccgcg aggagagggg aaagggtgc catggcggag gagacggacc acctcattct cctggctatc atgaccatca ccttcgccgt ctgctccctg ccttccacga ttttgcata tatgaatgaa acctttccc gaaggaaaa atgggacctc caagctctta ggtttttatc aattaattca ataattgacc ctgggtctt tgcctccctt aggcctctg tctgagact aatgcgttca gtcctctgtt tgcggatttc attaagaaca caagatgcaa cacaacctc ctgttctaca cagtcagatg ccagtaaaac ggtgacctt tgaagtcagt agtttaaaag ttcttagtta tatagcatct ggaagatcat ttgaaattg ttccctggag aaatgaaaac agtgtgtaaa caaatgaag ctgccctaat aaaaggagt atacaacat ttaagctgtg gtcaaggcta cagatgtct gacaaggcac ttcatgtaaa gtgtcagaag gagctacaaa acctaccctc aatgagcatg gtacttgcc ttggaggaa caatcggtg cattgaagat ccagctgcct attgatttaa gcttctctgt tgaatgacaa agtatgtgtt ttgttaattt gtttgaacc ccaaacagtg actgtacttt ctattttaat ctgtctacta ccgttatata catatagtgt acagccagac cagattaaac ttcatatgta atctctagga agtcaaatatg tggaagcaac caagcctgct gtcttgtag cacttagga acccttatt tgacaataga agttgaaaaat cataggcacc ttbtactgtg atgtttgtgt atgtggagt acctctatca ctacagtatt actcttaca gagtggaact agtggttaaa cctcagtttt ttttactcat cctccaggaa ctgcaggtca agtgtcagg ttattttatt tataatgtcc atagtctaag agtgatcaag aagactttag gaatggttct ctcaacaaga aataatagaa atgtctcaag gcagttaatt ctcataata ctcttattat cctatttctg ggggaggatg tacgtggcca tgtatgaagc caaatattag gcttaaaaa tgaaaaatct ggttcaattc tcaatatac tggaacctt ttaaagttga tatggggcc atgagtaaaa tagattttat aagatgactg tgttgtaaca aaattcatct gtctatattt tatttagggg aacatggttt gactcatctt atatgggaaa ccatgtagca gtgagtcata tcttaataa ttctcaaatg ttgggcatgt aaatgtaaac tcagcatcaa aatatttcag tgaatttgca ctgtttaatc atagtactg tgtaaaactca tctgaaatgt tacaataata aactataaaa ca </p>	Homo sapiens
292	3926	Prostaglandin E2 Receptor EP3	L32662	<p> RSSLSLFHV LATELVFTDLL GTCLISPVVL ASYARQTLV ALAPESRACT YFAFAMTFES LATMLMLFAM ALERYLSIGH PYFYQRRVSA SGLAVLPVI YAVSLLFCSL PLDDYGQYVQ YCPGTWCFIR HGRTAYLQLY ATLLLLIIVS VLACNFSVIL NLRMHRRSR RSRCGPSLGS GRGGPGARRR GERVSMAEET DHLILIAIMT ITFAVCSLPF TTFAYMNETS SRKEKWDLQA IRFLSINSII DPWFVAILRP PVLRMLRSVL CCRISLRTQD ATQTSCTSQS DASKQADL </p>	Homo sapiens
293	3926	Prostaglandin E2 Receptor EP3	NM_000957	<p> accagaggtt tccagagag gaaggcgtgg ctccctccc ggcagtgag ccttggcgcc A gccggggccg cgttcccagc agcggagtag ggcggcggtt ggcgcccgca ccatgggggg cagccagcc ccagcccgcg taaacgcga cctccgccc gcgccgcgc gcgtctgccc </p>	Homo sapiens

294	Prostaglandin E2 Receptor EP3	NP_000948.1	3926	<p> cctcccgctg cggtctctctg gacgccatcc cctcctcacc tcgaagccaa catgaaggag acccggggtc acggagggga tgcccccttc tgcaccgccc tcaaccactc ctacacaggg atgtggcgcc cggagcgttc cggcagggcg cggggaacc tcacgcgccc tccaggggtc ggcgaggatt gcgatcggt gtcgctggcc ttccgatca ccatgctgct cactggtttc gtgggcaacg cactggccat gctgctcgtg tcgcgagct accggcgccg ggagagcaag cgcaagaagt ccttctctgct gtgcacggcg tggtggcgcc tcaccgacct ggtcgggca cttctcacc cccgggtcgt catcgtcgtg tacctgtcca agcagcgttg ggagcacatc gaccgtcgg gggtgctctg cactttttc gggtgacca tgactgtttt cgggctctcc tcgttttca tgcacagcg catggcgctc ggcggcgcc tggccatcag ggcgcgcac tggatatcga gccacatgaa gacgctgcc accggcgctg tgcgtcctg cgtgtggctg gccgtgctcg ccttcgacct gctgcgggtg cctggcggtg gccagtacac cgtccagttg cccgggacgt ggtgcttcat cagcacggcg cgagggggca accgggactag ctcttcgc aactggggca accttttct cgcctcgtc ttgctctcc tggggtctct ggcgctgaca gtcacctttt cctgcaacct ggccaccatt agggcctgg tgcctcgct cggggccaa gccacggcat ctacgtccag tgcccagttg ggcgcacatc cgcacgagac ggccattcag cttatgggga tcatgtgctg gctgtcggtc tgcgtctct cgtcctctgat aatgatgtt aaaatgatct tcaatcagac atcagttgag cactgcaaga cacacacgga gaagcagaaa gaatgcaact tctcttaat agctgttcgc ctggcttcac tgaccagat ctggatctct tgggtttacc tctgttaag aaagatcct ctccgaagt ttgcccagat gagaaaaa agactcagag agcaagagat gggcctctgat ggaagtggt ttgtcctatc atggaggcag gtcccaggga cttggtgcag ttctcatgat agagaacct cgaagtgtcca gctaaagtga tgacttgaag ataaatctgc ctaaccctgg gatgaagtat ctgtgaacta ttttgacagc agatgaggaa ttttgggga ataaaaact gccttctgc cagatcaca tcaactggaag ctccatgact ctctttttgt aaaaagaaaa ccccaaatat aactgttctc cagaagctgt attctctttt actctctccc ccaagccac ttttactata tctacatata tcaattaaac tatgtcctgt tccatcatat gttttgtac ttttactata tctacatata tcaattaaac ttatgtccta ttgtttttgt aatttatatt tgcgtatata ttatcatatg taaaatttgc atttttttat tgaataattat gttctctgag attatccac attgaaacat ggagctctaa atcgtttaatt ttaaccgcta tagagtattc cataatttga ataaagcata attgtttgt ac </p>	Homo sapiens
295	Prostaglandin E Receptor EP4	NM_000958	3927	<p> cggcagcagc tcacaccta acgctgctct cccgagacg agaccggcg gactgcaaa gctgggactc gcttttgaag gaaaaaaat agcagtaga aatccagca ccattcttca ctgaccacac ccgctgcacc tctgttttcc caagtttttg aaagtggca actctgacct cgggtgtccaa aaatcgacag ccactgagac cggcttttga agccgaaga tttggcagtt </p>	Homo sapiens

296	Prostaglandin E Receptor EP4	NP_000949.1	3927	<p> tccagactga gcaggacaag gtgaaagcag gttggaggcg ggtccaggac atctgagggc tgacctggg ggctcgtgag gctgccacg ctgctgcgc tacagaccca gcttgcaact ccaaggctgc gcaccgccag ccactatcat gtccactccc ggggtcaatt cgtccgcctc cttgagcccc gaccggctga acagcccagt gaccatccc gcggtgatgt tcactttcgg ggtggtggc aacctggtg ccatcgtggt gctgtcaag tcgcgcaag agcagaagga gacgacctc tacagctgg tatgtggct ggctgtacc gacctgttg gcactttgtt ggtgagccc gtgaccatcg ccacgtacat gaaggccaa tggcccggg gccagccgct gtcgagtac agcacttca ttctgctctt cttacgctcg tccggcctca gcatcatctg cgccatgagt gtcgagcgt acctggccat caacatgcc tatitctaca gccactacgt ggacaagcga ttggcgggcc tcacgctctt tgcagtctat gcgtccaaag tgcctttttg cgctgccc aacatgggtc tcggtagctc gcggctcag taccagaca cctggtgctt catcgactgg accaccaag tgacggcgca cgccgctac tctacatgt acgcggtctt cagctcctc ctcattctcg ccacgtctc ctgaaacgtg cttgtgtcg gcgctgct ccgcatgcac cgccagtcca tgcgcgcac ctgctgggc accagcagc accacgccc cgcgccgcc tgggttgct cccggggcca cccgctgcc tcccagcct tggcgccct cagcgactt cgcgccgcc ggagcttcg ccgcatcgcg ggcccgaga tccagatggt catcttactc atggccacct cctggtggt gctcatctgc tccatccgc tctgtgtcg agtattcgtc aaccagttat atcagccaag ttggagcga gaagtcagta aaatccaga tttgaggcc atccgaattg cttctgtgaa cccactcta gacccctga tatatactc cctgagaaa acagtgtca gtaagcaat agagaagat aaatgctct tctgcgcac tgcggttc cgaggggc gctccggaca gactgtcga cagagtcga gacatcttc tgcatgtca ggcactct gctcctcat ctccgggag ctgaaggaga tcagcagtag atctcagacc ctctgccag acctctcat gccagacct agtgaatat gccttgagg caggaattg ctccagggtg tgcctggcat ggccctgcc caggaagaca ccactcact gaggacttg cgaatatcag agacctcaga ctcttcacag ggtcaggact cagagatgt cttactggt gatgagctg tgggagcgg cagggtggg cctgccccta agggagctc cctgcaagtc acatttcca gtgaacact gaactatca gaaaatgta tataataggc aagaaagaa atacagtact gttctggac cctataaaa tctgtgcaa tagacacata catgtcacat ttagctgtg tcagaaggc tcatcata </p>	<p> VLCKSRKEQK ETTFYTLVCG P FSLSLGLSII CAMSVERILA SRLQYPTWC FIDWTTNVT TSLGTEQHHH AAAASVASRG VLICSIPLV RVFNQLYQP IEKIKLFCR IGSRRERSG LPDLSENGLG GRNLLPGVPG GRAGPAPKGS SLQVTFPSET </p>	Homo sapiens
297	Prostaglandin F2-alpha Receptor	NM_000959	3928	<p> ggcgcggggc gccatggcacc accgagcggc tccgtctctc gctcctcaga gagcccgct A ggcgccctgg gatgacaaga tgcctggact gcaatcctgc acagttttga gagggagatg acttgagtgg ttggctttta tctccacaac aatgtccatg aacaattcca acagctagt </p>	<p> LNLSEKCI </p>	Homo sapiens

gtctcctgca gctgcgcttc ttccaacac aacctgccag acggaacc ggctttccgt
atTTTTtca gtaatttca tgacagtgg aatcttgtca aacagccttg ccatcgccat
tctcatgaag gcataacaga gatttagaca gaagtccaag gcacgtttc tgcttttggc
cagcgccctg gtaatcactg atttctttgg ccactcactc aatggagcca tagcagtatt
tgtatatgct tctgataaag aatggatccg ctttgacca tcaaatgtcc ttgacagtat
tttgggtatc tgcagtgtgt ttctgggtct gtgccactt cttctaggca gtgtgatggc
cattgagggg tgtattggag tcacaaaacc aatatttcat tctacgaaaa ttacatccaa
acatgtgaaa atgattgtta gtggtgtgtg cttgttgtct gtttctatag ctttgtgccc
catccctgga atcgagact ataaaattca ggcgtcgagg acctggtgtt tctacaacac
agaagacatc aaagactggg aagatagatt ttatcttcta ctttttctt ttctggggct
cttagccctt ggtgtttcat tgttgtgcaa tgcaatcaca ggaattacac ttttaagagt
taaattbaaa agtcagcagc acagacaagg cagatctcat catttgaaa tggtaatcca
gtctcctggcg ataattgtgt totcctgtat ttgttgagc ccatttctgg ttacaatggc
caacattgga ataaatggaa atcatttctt ggaacctgt gaacaacac ttttgtctct
ccgaatggca acatggaatc aaatctttag tcttgggta tatattcttc tacgaaaggc
tgtccttaag aatctctata agcttgccag tcaatgctgt ggagtgcag tcatcagctt
acataattgg gagcttagtt ccattaaaaa ttccctaaa gttgctgcta tttctgagtc
accagttgca gagaatcag caagcaccta gcttaatagg acgtaaatc tgtgtggggc
tagaacaata ataaagacat gtttggcaat atttcaagta tttaaatacc ttagccttaa
ctggaataat caggcttcat catgtagttt gaagatactt ttgtcagatt caggttttga
aatgtgtcaa ataaacagga taactgtaca ttttcaactt gtttttgcca atgggaggtg
gacacaataa aataatgcca tgggagtcac actgaaagca attttgagct tatctgtctt
atttatgctt tgagtgaatc atctgttgag gtctaagcc tctacttggc ctatttgcca
gagaacatct taatgcagcc tgcatagtga aatggttatt ttgagatcac cgctctgtag
ctaaccctta taaactaggc tcagtaaaat aaagcactct tattttttga tctggccctat
tttggccctc atttgttagc ctcaattaac acatgcatgg tcatgacacc cagaattcat
gatggtttgt tataacaacc tctgcatatt ccaggtctgg cagacaggtt gcctgacct
gcaatccctat ctagaatggg cccattcttg tcacatttga caaataggac tgcctacatt
tattattatg aaggtcgatt gttgttgtaa gtgttttttc atgtcataga tttagcaattt
tcaataaatt attttttctc tgaaaaattt gtgtgtgatt gcacaataaa taatttttag
agaaacaaag gctcttctc agcacattga tgggcaacta gaattacagc agtttcaaac
tctaccatgg ataatgcaa caaacggaag ctacatgcca atgatagggt caaagaatat
tggcaaaagg tgctttacct tgagccatta ttgtgttcag agaacaaga aacagagaac
aatataaaa tcaaaagact atctgcagct agtgtgttct tctttacac acatatacac
acagacatca gaaaattctg ttgagagcag gttcattaaa ttgttaagat ggcataattt
aaagcctgtg ctaccagtac taagagggga agactggcaa ttgtccaagc acttggggat
tattataaca attaactagg agatcaagag ataataatct cttcccaaat ttccaataa
taattgagac tttttcttg cttgtttgtg taattcaacc aaagaattt caatacccat
tcaaatgtc ctaggcttat cagaaatttag ggaaggtagt cotgctttat aataggaaaa
tgtatttctg tataagattt ctttgcttct attaaaaatg ggattcattt aaaaattaat
ctttccctgt taggtgatt tcagattctc taggaatatc ggtgaagtaa ccagaagact

298	Prostaglandin F2-alpha Receptor	NP_000950.1	3928	4051	Proteinase-Activated Receptor 2	NM_005242	<p>ttcagatggt ttatttgctt tcagcagaga atttattca tacagttact taagagtgtt gatgtcttgt gaacagagat ataaggaacc attctccatc ctctcttata atgtgggta caatgcttct atgaatattt ccatgtattt tgactgggga gagcagatga gaagaaactc tcattcaggg gtcacaggat ccttctcctt gaggcctcta aataaatggc agaattcttg ctgtattgcc atgatgtcac cctggccatg tgtactgact tgaggagatc ttgcaacatg gccatgtgca agcctttaag gagtgagaga gatgtgaca tatcttagga gggttatcta tgttatctga gtatatgttt gggtaaccaa attggtctta aaatgatgt taacccaaga agtagacatc aaaaataaa aaaaaaaa aaaa</p> <p>MSMNSKQLV SPAALLSNT TCQTENRLSV FFSVTFMTVG ILSNSLAIAI LMKAYQRFQ P KSKAFLLLA SLGVITDFG HLINGAIAVF VYASDKWIR FQSNVLCIS FGICMVFSG L CPLLGSVMA IERICGVTKP IFHSTKITSK HVKMMLSGVC LFAVFIALLP ILGHRDYKIQ ASRTWC FYNT EDIKDWEDRF YLLLFSLGL LALGVSLCN AITGITLLRV KFKSQHRQG RSHLEWVIQ LLAIMCVSCI CWSPFLVTMA NINGNHS L ETCETTLFAL RMAWNLQILD PWVYILLRKA VLKNLYKLAS QCCGVHVISL HIWELSSIKN SLKVA AIS ES PVAEKSAST</p> <p>cgcccgccc tggggaggcg cgcagcagag gctccgattc ggggcaggtg agagctgac A ttctctcgg tgcgtccagt ggagctctga gtttcgaatc ggtggcgcg gattccccgc gcgcccggcg tggggcttc caggaggatg cggagcccca gcgcggcggt gctgctgggg gcgcgcaccc tgcagcagc ctctctctcc tgcagtgcca ccatccaaag aaccaataga tcctctaaag gaagaagcct tattggtaa gttgatgcca catccacgt cactggaaaa ggagttacag ttgaacacgt ctttctctg gatgagtttt ctgcatctgt cctcactgga aaactgacca cggctctcct tccaattgtc tacacaaattg tgttgtggt gggtttgcca agtaacggca tggccctgtg ggtcttctt ttcgaacta agaagaagca cctgctgtg attacatgg ccaatctggc ctggctgac ctctctctg tcactgggt cccctggaag attgcctatc acatacatgc caacaactgg atttatggg aagctctttg taatgtgctt attggctttt tctatggcaa catgtactgt tccattctct tcatgacctg cctcagtgtg cagaggtatt ggggtcactgt gaacccatg gggcactcca ggaagaaggc aaacattgcc attggcatct cctggcaat atggctgctg attctgctg tcaccatccc ttgtatgtc gtgaagcaga ccatcttcat tctgcccctg aacatcacga cctgtcatga tgtttgcct gagcagctct tgggtggaga catgttcaat tacttctct ctctggccat tgggtctctt ctgttccccag ccttctcac agcctctgcc tatgtgctga tgatcagaat gctgcatct tctgcatgg atgaaaactc agagaagaaa aggaagaggg ccatcaaat cattgcact gtcctggcca tgtacctgat ctgcttcat cctagtaacc ttctgctgt ggtgcattat tttctgatta agagccagggg ccagagccat gtctatgcc tgtacattgt agccctctgc ctctctaccc ttaacagctg catcgacccc ttgtctatt acttgtttc acatgatttc agggatcatg caaagaacgc tctcctttgc cgaagtgtcc gcactgtaaa gcagatgcaa gtatccctca cctcaaagaa aactccagg aaatccagct ctactcttc aagttcaacc actgttaaaga cctctattg agtttccag gtcctcagat gggaatgca cagtaggatg tggaacctgt ttaatgttat gaggacgtgt ctgttatttc ctaatacaaaa aggtctcacc acataccacc g</p>	Homo sapiens
299	Proteinase-Activated Receptor 2		4051				<p>MRSPSAWLLL GAAILLAASL SCSTIQGTN RSSKGRSLIG KVDGTSHTVG KGVTVETVFS P VDEFSASVLT GKLTTFVLP I VYTVFVUGL PSNGMALWVF LFRTKKKHPA VIYMANLALA</p>	Homo sapiens
300	Proteinase-Activated	NP_005233.2	4051					Homo sapiens

Receptor 2	Proteinase-Activated Receptor 3	Receptor 3	Proteinase-Activated Receptor 3
301	4052	NP_004101	301
DLSSVIFPL KIAYHHANN WIYEALCNV LIIGFFYGNMY CSILFMTCLS VQRYWVIVNP	ctgcctgca cggcacagga gagcaaaact ctacagacag accaaggctt ccatttgctg A		
MGHSRKKANI AIGISLAIWL LILVITPLY VVKQTFIPA INITTHDVL PEQLIVGDMF	ctgacacatg gaactgaggt gaaattgtgc tccatgat ttacagattc ataacgttta		
NYFLSLAIGV FLFPAFLTAS AYVLMIRMLR SSAMDENSEK KRKRAIKLIV TVLAWYLICF	agagacggga ctcaggtcat caaatgaaa gccctcat ttgcagctgc tggcctcctg		
TPSNLLLVH YFLIKSQGS HVYALYIVAL CLSTLNSCID PFVYFVSHD FRDHAKNALL	cttctgttgc ccactttttg tcagatggc atggaaaatg atacaaaacaa cttggcaaaag		
CRSVRTVKQM QVSLTSKKHS RKSSSYSSSS TTVKTSY	ccaaccttac ccattaagac cttctgtgga gctcccccaa attcttttga agagtcccc		
	ttttctgctt tggaaggctg gacaggagcc acgattactg taataataa gtgcctgaa		
	gaaagtgtt cactctcca tgtgaaaaat gctaccatgg ggtacctgac cagctctcta		
	agtactaaac tgatacctgc catctacctc ctggtgtttg tagttggtgt cccggccaaat		
	gctgtgacct tgtggatgct tttcttcagg accagatcca tctgtaccac tgtattctac		
	accaacctgg ccattgcaga ttttctttt tgtgtttacat tgccttttaa gatagcttat		
	catctcaatg ggaacaactg ggtatttggga gaggtcctgt gccggggccac cacagtcatc		
	ttctatggca acatgtactg ctccattctg ctccctgctt gcatcagcat caacgcgtac		
	ctggccatcg tccatccttt cactaccgg ggcctggcca agcacacta tgccttggtta		
	acatgtggac tgggtggggc aacagttttc ttatatatgc tgcattttt catactgaag		
	caggaatatt atcttgttca gccagacatc accacctgcc atgatgttca caacacttgc		
	gagtcctcat ctcccttcca actctattac ttcatctctc tggcattctt tggattctta		
	attccatttg tgcattcat ctactgctat gcagccatca tccggacact taatgcatac		
	gatcatagat ggttgggta tgttaaggcg agtctctcca tcccttgat tttaccatt		
	tgctttgtc caagcaatat tatcttatt attcaccatg ctactacta ctacaacaa		
	actgatggct tatattttat atatctcata gctttgtgcc tgggtagtct taatagtgc		
	ttagatccat tcttttattt tctcatgtca aaaaccagaa atcactccac tgcctacctt		
	acaaaatagt gaaatgatct tagagaacaa ggacagccat cacagagaac gtctgttttc		
	aagaacaaca taagcatagt gcaaggagct ccatttccga gctcctaaga aatatgtctc		
	aaagggtcaaa cattacaaaa gcattagtag tttgtttgtt tgtttttgag actgagtctc		
	actttatcac ccagactggc gtgcagtggc actatcttgg ctcatggcaa cctctgcctc		
	ccagggtcagc ctcccaagta gctgggatta caccaccatg cccagctact aaaaactatt		
	gtatttttag tagagacggg gtttcaccat gttgaccagg ctggtcttga actcctgacc		
	tcaagtgatc ttccggcctc agcctcccaa agtgcctggat tacagcgctg agccactgag		
	ccagccagca ttagtaattt ttaaaaaaac ttatcatgta ttttaaaaat gttaatgcag		
	gagaaaaaat atcacactc tatggaaaat gacatttcca ttgaccttat tgcctactca		
	agctctttaa atcacactc tccctatttc		
802	4052	NP_004092.1	802
GATITVKIKC PEESASHLV KNATMGYLTS SLSTKLIPAI YLLVFFVGVF ANAVTLWMLF	gattitvkikc peesashlv knatmgylts slstklipai yllvffvgvf anavtlwmlf		
FRTSRICTTV FYTNLAIADEF LFCVTLPEFKI AYHLNGNWW FGEVLCRATT VIFVGNMYCS	ftrtsicttv fytlnaiadf lfcvtlpefki ayhlngnww fgevlcratt vifvgnmycs		
ILLLACISIN RYLAIVHPFT YRGLPKHTYA LVTCLGLWAT VFLYMLPFFI LKQEYVLVQF	illllacisin rylaiwhpft yrglpkhtya lvtclglwat vflymlpffi lkqeyylvqf		
DITTHDVHN TCSSSPFQL YFISLAFPG FLIPFVLIY CYAAIIRTLN AYDRHRLWYV	dittthdvhn tcssspfql yfislafpg flipfvliy cyaaiirtln aydrhrlwyv		

303	4090	G Protein- Coupled Receptor GPR17	NM_005291	KASLLILVIF TICFAPSNI LIIHHANYYY NNTDGLYFIY LIALCLGSLN SCLDPFLYFL MSKTRNHSTA YLTK	ccgacaccca cgggcgagaga tcacctggtg cccgcgcagac cctgttccct tcctcccgga A ccagcagcta gaggatgtcc aaacggagtt ggtgggtctgg atccagaaa ccccaagag agatgctgaa actctcagc tctgactcca gccaagcat gaatggcctt gaagtggctc ccccaggtct gatcaccaac ttctccctgg ccaagcaga gcaatgtggc caggagacgc cactggagaa catgctgttc gctccttctt accttctgga ttttatcctg gctttagttg gcaataccct ggctctgtgg cttttcatcc gagaccacaa gtccgggacc ccggccaacg tgttcoctgat gcattctggc gtggcgact tgtgtgctgt gctgggtcctg cccaccgccc tgggtctacca cttctctggg aaccactggc catttgggga aatcgcatgc cgtctcaccg gcttctctt ctacctcaac atgtacgcca gcatactt cctcacctgc atcagegcg accgtttcct ggccattgtg caccgggtca agtccctcaa gctccgcagg cccctctacg cacacctggc ctgtgccttc ctgtgggtgg tgggtggctgt ggccatggcc ccgctgctgg tgagccaca gaccgtgcag accaaccaca cgtgtgtctg cctgcagctg taccgggaga aggctccca ccatgcctg gtgtccctgg cagtggcctt cacttccc ttcatcaca cgttcacctg ctacctgtg atcatcgca gccctgggca gggcctgctt gtggagaagc gccacaagac caaggcagtg cgcattgatc ccatagtgtt ggccatcttc ctggtctgct tcgtgcccta ccacgtcaac cgtccgtctt acgtgtctga ctaccgcagc catggggcct cctggccac ccagcgcac ctggccctgg caaacgcgat cactcctgc ctcaccagcc tcaacgggc actcgacccc atcatgtatt tcttctgtgg tgagaagttc cgccacgccc tgtgcaactt gctctgtggc aaaggctca agggcccgc cccagcttc gaagggaata ccaacgagag ctctgtagt gcaagtcag agctgtgagc gggggggcgc gtccagggccg agcgcagact gtttagact cagcagacc cagcagacc agcaagaggc atctgcctt tccccagca cctcccagc aagcaacctg aaatctcagc agatgcccac catttctcta gatcgctag tctcaaccca taaaaaggaa gaactgaca aggggatcca tcggccacc cctgcagggg gcttgtgatg gctacaatgg ctctagaca ctcaacgact tcatctgtgg cagggagaga ggaggccgga agaacaacc ctgaacaatg gaggccttc ttcccgcga ggtcccagc ctccttccc ctacagaatc gctcctggc gaggtcagc agaaagacc tgaaggcagg ctgcaaatga cccagaagag ggacctggga gtccgtgtgg ggacggggag ggagtctcaa tactccttg cagcgcaagg tactctgagt cccctctgta gtgcctctgc cagacacaca ctgcctgagt tgaagagaca caggccacac attcaggct ggtgcccagc ggacgtcagc actcacggcc tgcggggact cagcacagct ctggattctg gatctctct gctgtaacc cagcacaag cctgcaacc cagagctct ttgacaggct cccaggcctc ccagtcctgg acaagcatgt gcagtcacgg gagctcagct caggccagg ctgggctgtg cactgcctc ccactgacc agaccactt cctccagaga ggcctctctc cgcctgagct atttccctg ctagtgtgca gatatttccc taacatgtcc tttttgtat ttgtttgtac ggaccataaa tataactgta gctttaagac taaaaaaa	Homo sapiens
304	4090	G Protein- Coupled Receptor GPR17	NP_005282.1	MSKRSWWAGS RKPPREMLKL SGDSSSQSMN GLEVAPPGLI TNFSLATAEQ CGQETPLENM P LFASFYLLDF ILALVGNLIA LWFIRDHKS GTPANVFLMH LAVADLSCVL VLPTRIVYHF SGNHWPFGEI ACRLTGFLFY LNMVASYFL TCISADRFIA IVHPVKSILK RRPLYAHLAC AFLWVVVAVA MAPLLVSPQT VQTNHTVVCL QLYREKASHH ALVSLAVFT FPFITVTCTY	Homo sapiens	

305	4254	Rhodopsin	NM_000539	<p> ILIIRSLRQG LRVEKRLTK AVPMIAIVLA IFLVCFVPHY VNRSVVVLHY RSHGASCATQ RILALANRIT SCLTSLNGAL DPIMYFFVAE KFRHALCNLL CGKRLKGPPP SFEGKTNES LSAKSEL </p>	<p> agagtcatacc agctggagcc ctgagtggct gagctcaggc cttegcagca ttcttgggtg A ggagcagcca cgggtcagcc acaaggcca cagccatgaa tggcacagaa ggcctaact tctacgtgcc ttgtccaat cgcacgggtg tggtagcag cccctcgag taccacagt actacctggc tgagccatgg cagttctcca tgcctgcgc ctacatgttt ctgctgacg tgctgggctt ccccatcaac ttctcagc tctactcagc cgtccagcac aagaagctgc gcacgcctct caactacatc ctgctcaacc tagccgtggc tgacctcttc atggtcctag gtggcttcac cagcaccctc tacacctctc tgcattgata cttegtcttc gggccacag gatgcaattt ggagggttc ttggccacc ttggcggtga aattgcctg tggtccttg tggtcctggc catcagcgg tacgtggtgg tgtgtaagcc catgagcaac ttccgcttgc ggagaaacca tgccatcatg ggcgttgct tccactgggt catggcgctg gctgcgcgc caccocact cgcgggtgg tccaggtaca tcccggagg cctgcagtc tegtgtgaa tcgactacta cagctcaag cggaggtca aacagagtc tttgtcatc tacatgttcg tggctcactt caccatcccc atgattatca tcttttctg ctatgggag ctctcttca ccgtcaagga ggcgctgcc cagcagcagg agtcagcac caccagaa gacagaaag aggtcacccg catggtcatc atcatgttca tctgttctc gatctgctg gtgacctacg ccagcgtggc attctacatc ttccaccacc agggctccaa ctccgtccc atcttcata ccattcccagc gttctttgcc aagagcgcc ccatctaca cctgtcatc tatatcatga tgaacaagca gtccgggaa tgcattgctca ccacctctg ctggcgcaag aacctactgg gtacgatga ggcctctgct accgtgtcca agacggagac gagccaggtg gcccgccct aagacctgcc taggactctg tggccgacta taggcgtctc ccatccctca cacttccc cagccacagc catccacca ggagcagcgc ctgtgcagaa tgaacgaagt cacataggct ccttaatttt ttttttttt ttaagaaata attaatagg ctctcactc acctgggaca gcctgagaag ggacatccac caagacctac tgatctggag tccacgttc ccaaggcca gcgggatgtg tgccctcct cctcccaact catcttccag gaacacgag attcttgctt tctggaaaag tgtccagct tagggataag tgtctagcac agaattgggc acacagtagg tgcttaataa atgctggatg gatgcaggaa ggaattggag aatgaatgg aaggagaaac atatctatcc tctcagaccc tcgcagcagc agcaactcat actgggctaa tgatatggag cagttgtttt tccctccctg ggctcactt tcttctcta taaatggaa atcccagatc cctggtcctg ccgacacgca gctactgaga agacaaaaag aggtgtgtgt gtgtctatgt gtgtgtttca gcaatttcta aatagcaaga agctgtacag attctagtta atgttgtgaa taacatcaat taatgtaact agttaattac tatgattatc acctcctgat agtgaacatt ttgagattgg gcattcagat gatgggtttt caccacact tggggcaggt ttttaaaat tagctaggca tcaaggccag accagggtg ggggttgggc tgtaggcagg gacagtcaca ggaatgcagg atgcagtcac cagacctgaa aaaaacacac tgggggagg ggacggtgaa ggccaagtcc ccaatgagg tgagattggg cctgggtctc caccctagt gtggggccc aggtcccggt cctcccctc ccaatgtggc ctatggtagc agagccctt ctctcagct ctgggaagcca cctgtctttt tgctctagca cctgggtccc agcatctaga gcattgagcc tctagaagcc atgtccacc gccacattt aattaacagc tgagtccctg atgtcatcct </p>	<p> Homo sapiens </p>
-----	------	-----------	-----------	--	--	---

306	4254	Rhodopsin	NP_000530.1	<p>tactcgaaga gcttagaaac aaagagtggg aaattccact gggcctacct tccctgggga</p> <p>tggtcatggg ccccgatttc cagtttccct tgccagacaa gccatcttc agcagttgct</p> <p>agtcattct ccattctgga gaactgctc caaaaagctg gccatctc tgagggtgca</p> <p>gaattaagct gctcagtaa ctgctccccc ttctccat aagcaaaagc agaagctcta</p> <p>gctttaccca gctcgcctg gagactaag caaattggc cattaaaagc tcagctccta</p> <p>tgttgtatt aacggtggtg ggtttgttg ctttccact ctaccacag gatagattga</p> <p>aactgccagc ttccacctga tccctgacc ttggtagctt ggttagcga atgagcagag</p> <p>ccaagcagca cagagtcccc tggggctaga ggtgagagag gcagtccctg gaatgggaaa</p> <p>aacccca</p>	Homo sapiens
307	4284	Retinal G Protein-Coupled Receptor RPE	NM_002921	<p>VTVQHKKLR PLNYLLNLA VADLFMLGG FTSTLYSLH GYFVFGPTGC NLEGFATLG</p> <p>GEIALWSILV LAIERVAVVC KPMNSFRFGE NHAIMGVAF WMLALACAAP PLAGWSRYIP</p> <p>EGLQCSQCID YITLKPEVNN ESFVIYMFV HFTIPMIIF FCYQQLVFTV KEAAQQQES</p> <p>ATTQKAEKEV TRVIMVIA FLICWVPYAS VAFYIFTHQG SNFGPIFTI PAFFAKSAAI</p> <p>YNPVIYIMN KQFRNCMLTT ICCGNPLGD DEASATVSKT ETSQVAPA</p> <p>agagacagct gggccactg cagtgagga gagtggagt ggcagagacc agtgcctgc A</p> <p>ccactggctt cggggagctt ggtgtgctg cgtggggat ggtgctactg gtggaagctc</p> <p>tctccggctt cagctcaat accctgacca tcttctctt ctgcaagacc ccggagctgc</p> <p>ggactccctg ccactactg gtgctgact tggctcttg ggcagtggtg atcagcctga</p> <p>atgccctgt tgcagccaca tccagccttc tccggcgtg gccctacgc tcggacggct</p> <p>gccaggctca cggcttccag ggcttbtga cagcgttgc cagcactgc agcagtgccag</p> <p>ccatcgcatg gggcgcttat caccactact gcaccgtag ccagctggcc tggaaactcag</p> <p>ccgtctctt ggtgctctt gtgtgctgt cttctgctt ctgggacagt ctgccccctc</p> <p>tgggttgggg tcaatatgac tatgagccac tggggacatg ctgcaccctg gactactcca</p> <p>agggggacag aaactcacc agcttctct tccactgtc cttcttcaac ttcgccatgc</p> <p>ccctcttcat cagatcact tctacagtc tcatggagca gaaactggg aagagtggcc</p> <p>atctccaggt aaacaccact ctgccagcaa ggaagctgt gtcggctg ggcctctatg</p> <p>ccatctctga tctatacgca gtcatcgag acgtgactt catctcccc aaactgcaga</p> <p>tgggtcccc cctcattgac aaatgtgc ccaagatcaa tggcatcaa tatgcctg</p> <p>gcaatgagat ggtctgcagg ggaatctggc agtgccttc accgcagaag agggagaag</p> <p>accgaaccaa gtgagcctgc caccctggag tgagccccc ggcagagggc tgttccagga</p> <p>gtcctgcca gcagcctgg tggcgaagcc cagacactca cccacttc ccagtggccc</p> <p>cgtggatcct ggtcctagc tggacacagg attcagaaag acaccaggct gcacagaaag</p> <p>agccagatgg acctgagtg cggtcacag cccctacact caagctgag aggcctcagg</p> <p>aaagtcattc ctttttaaaa ataataaa atgtaagggg gtacagtga gttttgttac</p> <p>atggatagat tgcctagtg tgaagtctg gcttttagt taaccatcac cctaataata</p> <p>tacgtgtgac ccattaaagt atttctcat cctaccccc tccaccttg tccaccttct</p> <p>gagtcctcaa tgtctattat tccacactcc atgtccagt gtacacatta tttagctccc</p> <p>acttacaagt gagaacatgt ggtattgac ttcca</p>	Homo sapiens
308	4284	Retinal G Protein-	NP_002912.1	<p>MAETSAALPTG FGELEVLAVG MVLVLALSG LSLMTLTIFS FCKTPELRTP CHLLVLSIAL P</p> <p>ADSGISLNAL VAATSSLLRR WPGSDCCQA HGFQGFVTAL ASICSSAALA WGRYHHYCTR</p>	Homo sapiens

309	4321	Coupled Receptor RPE	NM_002980	<p>SQLAWNSAVS LVLFWLSSA FWAALPLLGW GHYDYELPGLT CCTLDYSKGD RNFTSFLFTM SFENFAMPLF ITITSYSLME QKLGKSGHLQ VNTTLPARTL LLGWGYPAIL YLYAVIADVT SISPKIQMVP ALIAKMVPTI NAINYALGNE MVCRGIWQCL SPQKREKDRIT K acgagggcgg cggagcccg ggaccctgg cggggcgctg agtccccgag cgggcagagg A gcacgggcag cggagcgtcg gggcgccctc ggggaacgtg cgggcaccat gcgtcccccac ctgtcgccgc cgtgcagca gctactactg cgggtgctgc tgcctgcgc cgcgcactcg actggagccc ttccccgact atgtgacgtg ctacagctg tgtgggaaga gcaagaccag tgctgcagg aactctccag agagcagaca ggagacctgg gcacggagca gccagtgcga ggttgtagg ggatgtggga caacataagc tgctggccct cttctgtgcc gggccggatg gtggaggtgg aatgcccag attcctcgg atgtcacca ggagaaatgg ttccttgctc cgaaactgca cacaggatgg ctggtcagaa accttcccc ggctaatct ggctgtggc gttaatgtga acgactcttc caacgagaag cggactcct acctgctgaa gctgaaagtc atgtacacgg tgggctacag ctctcctcg gtcatgtcc tggcgccct tggcactcctc tgtgttttc ggaggctcca ctgcactgc caacttcac aaggagcgg tgctcttctc ctccagatgat ttcatccttc gtgcctcgtc caacttcac aaggagcgg tgcaagctgg tcatgtgct gtccagttac tgcaactact gcaactactc ctggctgctg gtggaagcc totacctca cacactcctc gcatcatgg ccaactactc ctggctgctg aagaaagtc ctccagggat ttgtggcatt cggatggggt gccatctcct tcttctctga aagaaagtc attgcccag actttctgga agatgttggg tctccagcca tttttgttc tttgtggct attgcccag actttctgga agatgttggg tgtcgggaca tcaatgcca cgcactcact tgggtgatca ttcgtgtgct tgtgatcctc tccatcctga ttaatttcac ccttttcaata aacattctaa gaactcctgat gagaaactt agaacccaag aaacaagagg aaatgaagtc agccattata agcgcctggc caggtccact ctcctgctga tccccctct tggcactcac tacatcgtct cgccttctc cccagaggac gctatggaga tccagctgtt ttttgaacta gcccttggt cattccagg actggtggtg gccgtcctct actgcttct caatggggag gtgcagctgg aggttcagaa gaagtggcag caatggcacc tccgtgagtt cccactgcac cccgtggcct ccttcagcaa cagaccaag gccagccact tggagcagag ccaggccacc tgcaggacca gcatcactg agaggtgga gcagggtcac ccacggacag agaccaagag aggtcctcg aggtcggc actgctgtg gacagccagt ctccccagca gacacctgt gtctccttc agctgaagat gcccctccc agcccttga ctctccgaa gggatgtgag gcactgtgg gcaggacaa ggcctgggat ttggttcgtt tgctctctg ggaagagaag ttcagggggtc ccagaaagg acagggaat aaatggtgct tgggatgaga ttc</p>	Homo sapiens
310	4321	Secretin Receptor	NP_002971.1	<p>MRPHLSPPLQ QLLLPVLLAC AAHSTGALPR LCDVLQVLWE EQDQCLQELS REQTDIGTE P QFVPGCEGMW DNISCPSSV PGRMVEVECP RFLRLMTRN GSLFRNCTQD GWSETFPRN LACGVNWDN SNEKRHSYLL KLKVMYTVGY SSSLVMLLVA LGILCAFRRL HCTRNYIHMH LFVSEILRAL SNFIKDAVLF SSDDVTYCDP HRACKLVMV LFQYICIMANY SWLLVEGLYL HTLLAISFFS ERKYLGQFVA FGWGSPIFV ALMAIAKHFL EDVGCWDINA NASIWWIIRG PVILSILINF ILFINILRIL MRKLFTQETR GNEVSHYKRL ARSTLLIPL FGIHYIVFAP SPEDAMEIQL FFELALGSFQ GLVVAVLVCF LNGEVQLEVQ KKWQQWHLRE FPLHPVASFS NSTKASHLEQ SQGTCRTSII</p>	Homo sapiens

311	4480	Somatostatin NM_001049 Receptor Type 1	atgtttcccca atggcaccgc ctctctctct ctctctctct tctctctctc ctgcccacag cccgggcagc A tgcggcgaa ggcggcgag caggggcccc ggggcccgcg ctgcggacgg catggaggag sapiens ccaggggcaa atgcgtccca gaacgggacc ttgagcgagg gccagggcag cgcctacctg atctctttca tctactccgt ggtgtgcctg gtggggctgt gtgggaactc tatggtcacc tacgtgatcc tgcgtatgc caagatgaag acggcaccac acatctacat cctaaatctg gccattgtcg atgagctgct catgctcagc gtgcccctcc tagtcaactc cactgtgttg cgccactggc ccttcggctg gctgctctgc cctcagctg ctcagctgga ggcgggtcaac atgttcacca gcattactg tctgactgtg ctacggctgg ccaaggtagt aaacctgggc catcccatca agggggccc ctaccggcgg cccatcgctg tctctctcg caccgggccc gtgtgggtgc tatcgtgct cgtcatcctg cctatcgctg ctcattgccag agcccgctca acgctggctg aacagcgacg gcacgggtggc ttgcaacatg ctcattgccag agcccgctca acgctggctg gtgggcttcg tgtgttacac atttctcatg gcttctctgc tgcctgtggg ggctatctgc ctgtgctacg tgcctcatcat tgctaagatg cgcattgtgg cctcaaggc cggctggcag cagcgeaagc gctcggagcg caagatcacc ttaattgtga tgatgggtgt gatggtgttt gtcattctgt ggtgctctt ctacgtgttg cagctgtgta acgtgttgc tgacaggac gacgcacagg tgagtcagct gtcggctcgc ctcggctatg ccaacagctg cgccaacccc atcctctatg gcttctctc agacaactc aagcgtctct tccaacgcat cctatgcctc agctggatgg acaacggcgc ggaggagcgg gttgactatt acgccaacgc gctcaagagc cgtgcctaca gtgtggaaga cttccaacct gagaacctgg agtcggcgcg cgtcttccgt aatggacct gcactcccg gatacagcg ctctga ISFIYVWVCL VGLCGNSMVI YVILRYAKMK TATNIYLNL AJADELLMLS VPFLVTSTLL P RHWPFGLLC RLVLSDAVN MFTSIYCLTV LSVDYVAVV HPIKAARYRR PTVAKVNLG sapiens VWVLSLVIL PIWFSRTAA NSDGTACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIARM RMVALKAGWQ QRKRSEKIT LMVMVMVVF VICWMPFYV QLVNVFAEQD DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSEKILCL SWMDNAAEEP VDYATALKS RAYSVEDFQP ENLESGGVER NGTCTSRITT L atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtgtgtgc aaccaacacc tcaaacaccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattgg gttgtgtggc aacacacttg tcaattatgt catcctcgc tatgccaaga tgaagacct caccaacatt tacatcctca acctggccat cgcagatgag ctctcatgc tgggtctgccc ttcttggct atgcagggtgg ctctgttcca ctggcccttt ggaaggcca ttgtccgggt ggtcatgact gtggatggca tcaatcagtt caccagcatc ttctgcctga cagtcatgag catcgaccga tacctggctg tgggtccacc catcaagtgc gcaagtga ggagacccc gacggccaag atgatcacca tggctgtgtg gggagtctct ctgctgtgta tcttgcccat catgatata gctgggctcc ggagcaacca gtgggggaga agcagtga ccatcaactg gccaggtgaa tctggggctt ggtacacagg gttcatcacc tacactttca ttctgggtt cctggtaacc ctcaccatca tctgtctttg ctacctgttc atatatca aggtgaagtc cctgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaag tcacccgaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgtc
312	4480	Somatostatin NP_001040.1 Receptor Type 1	MFPNGTASSP SSFSPSPSGS CGEGGSRGP GAGAADGMEE PGRNASQNGT LSEGGQSAIL P ISFIYVWVCL VGLCGNSMVI YVILRYAKMK TATNIYLNL AJADELLMLS VPFLVTSTLL P RHWPFGLLC RLVLSDAVN MFTSIYCLTV LSVDYVAVV HPIKAARYRR PTVAKVNLG sapiens VWVLSLVIL PIWFSRTAA NSDGTACNM LMPEPAQRWL VGFVLYTFLM GFLLPVGAIC LCYVLIARM RMVALKAGWQ QRKRSEKIT LMVMVMVVF VICWMPFYV QLVNVFAEQD DATVSQLSVI LGYANSCANP ILYGFLSDNF KRSEKILCL SWMDNAAEEP VDYATALKS RAYSVEDFQP ENLESGGVER NGTCTSRITT L atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtgtgtgc aaccaacacc tcaaacaccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattgg gttgtgtggc aacacacttg tcaattatgt catcctcgc tatgccaaga tgaagacct caccaacatt tacatcctca acctggccat cgcagatgag ctctcatgc tgggtctgccc ttcttggct atgcagggtgg ctctgttcca ctggcccttt ggaaggcca ttgtccgggt ggtcatgact gtggatggca tcaatcagtt caccagcatc ttctgcctga cagtcatgag catcgaccga tacctggctg tgggtccacc catcaagtgc gcaagtga ggagacccc gacggccaag atgatcacca tggctgtgtg gggagtctct ctgctgtgta tcttgcccat catgatata gctgggctcc ggagcaacca gtgggggaga agcagtga ccatcaactg gccaggtgaa tctggggctt ggtacacagg gttcatcacc tacactttca ttctgggtt cctggtaacc ctcaccatca tctgtctttg ctacctgttc atatatca aggtgaagtc cctgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaag tcacccgaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgtc
313	4481	Somatostatin NM_001050 Receptor Type 2	atggacatgg cggatgagcc actcaatgga agccacacat ggctatccat tccatttgac A ctcaatggct ctgtgtgtgc aaccaacacc tcaaacaccaga cagagccgta ctatgacctg acaagcaatg cagtcctcac attcatctat ttgtgtgtct gcatcattgg gttgtgtggc aacacacttg tcaattatgt catcctcgc tatgccaaga tgaagacct caccaacatt tacatcctca acctggccat cgcagatgag ctctcatgc tgggtctgccc ttcttggct atgcagggtgg ctctgttcca ctggcccttt ggaaggcca ttgtccgggt ggtcatgact gtggatggca tcaatcagtt caccagcatc ttctgcctga cagtcatgag catcgaccga tacctggctg tgggtccacc catcaagtgc gcaagtga ggagacccc gacggccaag atgatcacca tggctgtgtg gggagtctct ctgctgtgta tcttgcccat catgatata gctgggctcc ggagcaacca gtgggggaga agcagtga ccatcaactg gccaggtgaa tctggggctt ggtacacagg gttcatcacc tacactttca ttctgggtt cctggtaacc ctcaccatca tctgtctttg ctacctgttc atatatca aggtgaagtc cctgggaatc cgagtgggct cctctaagag gaagaagtct gagaagaag tcacccgaat ggtgtccatc gtgggtggctg tcttcatctt ctgctggctt ccttctaca tattcaacgt ttcttccgtc

314	4481	Somatostatin NP_001041.1 Receptor Type 2	<p> tccatggcca tcagcccccac cccagccctt aaaggcatgt ttgactttgt ggtggtcctc acctatgcta acagctgtgc caaccctatc ctatatgcct tcttgctga caacttcaag aagagcttcc agaattgctc ctgcttggtc aagtgagcg gcacagatga tggggagcgg agtgcagta agcaggacaa atcccggtcg aatgagacca cggagaccca gaggaccctc ctcaatggag acctccaaac cagtattga MDMADEFLNG SHTWLSIPFD LINGSVSTNT SNQTEPYDL TSNVLTFIY FVCIIGLCG P NTLIVIVILR YAKMKTITNI YILNLAIAD E LFMGLGFLA MQVALVHWPF GKAI CRVMT VDGINQFTSI FCLTVMISDR YLAVWHPIKS AKWRRRTAK MTMAVWGS LVLIPIMY AGLRNQWGR SSCTINWPG E SCAWYTGFI YFILGLFV LP LTIICLCYLF IIKVKSSGI RVSSSRKKS EKKVTRMVS I VVAVFIFCWL PFYIFNVSSV SMAISPTPAL KGMDFVVL TYANSCANPI LYAFLSDNFK KSFQNVLCIV KVSQTDGER SDSKQDKSRL NETTETQRTL LNGDLQTSI </p>	Homo sapiens
315	4482	Somatostatin NM_001051 Receptor Type 3	<p> atggacatgc ttcatccatc atcgggtgtec acgacctcag aaactgagaa tgcctcctcg A gcctggcccc cagatgccac cctgggcaac gtgtggcgg gcccagccc ggcagggtcg gccgtcagtg gcgttctgat ccccttggtc tacttggtg tgtgcgtggt gggcctgctg ggttaactcg tggatcatc taactgctg cggcacacgg ccagccctc agtcaccaac gtctacatcc tcaacctggc gctggcggac gagctctca tgcctgggt gcccttctcg gccgccaga acgacctgtc ctactggccc tcggtgtccc tcatgtgcc cctggtcatg gcggtggatg gcataacca gttcacccag atattctgcc tgaactgcat gacgtggagc cgtaacctg ccgtgggtaca tcccaccgc tcggcccgct ggcgcacagc tccggtggcc cgacaggtca gcggtgctgt gtgggtggcc tcagccgtg tgggtgctgc cgtggtggtc ttctcgggag tgcgccggc catgagacc tgccacatgc agtgcccga gccggcggcg gcctggcgag ccggcttcat catctaacg gccgactgg gcttcttcg gccgtgctg gtcatctgcc tctgtacct gctcatcgt gtgaaggtgc gctcagctgg gcgccgggtg tgggcacct cgtgccagcg gcgccggcg tccgaacgca ggtcacgcg catggtggtg gccgtggtg cgtcttctgt gctctgctg atgcccttct acgtgctcaa catcgteaac gtggtgtgcc cactgccga ggagcctgcc ttcttgggc ttacttctt ggtggtggcg ctgccctatg ccaacagctg tgccaaaccc atcttctatg gcttctctc ctaccgttc aagcagggtt tccgagggt cctgctgcgg ccctcccgc gttgctgcag ccaggagccc actgtggggc ccccgagaa gactgaggag gaggatgagg aggaggagga tggggaggag agcaggagg ggggcaagg gaaggagatg aacggccggg tcagccagat cacgcagcct ggcaccagcg ggcaggagcg gccgccagc agagtggcca gcaaggagca gcagtccta ccccagagg cttccactgg ggagaagtc agcacgatgc gcacagcta cctgtag MDMLHPSSVS TTSEPENASS AWPPDATIGN VSAGSPAGL AVSGVLIPLV YLVCVVGGL P GNSIVIVVL RHASPSTVN VYILNLALAD ELFMGLGFLP AAQNALSYP FGSIMCRLVM AVDGINQFTS IFCLTVMVD RYLAVWHPIR SARWRTPA RTVSAVWVA SAVVLPVV FSGVPRGMST CHMQWPERAA AWRAGFIYT AALGFGPLL VICLCYLLV VKVRSAGRV WAPSCQRRR SERRVTRMV AVVALFVLCW MPFYVLINIV VVCPLEPA FGLYFLWA LPYANSCANP ILYGFLSYR KQGFRRVLLR PSRRVRSQEP TVGPPKTEE EDEEEDGEE SREGGKGEM NGRVSIQITP GTSGQERPPS RVASKEQQL PQEASTGEKS STMRI SYL </p>	Homo sapiens
316	4482	Somatostatin NP_001042.1 Receptor Type 3		Homo sapiens

317	4483	Somatostatin NM_001052 Receptor Type 4	atgagcgccc cctcgacgct gccccccggg ggcagaggaag ggcctggggac ggcctggccc A tctgcagcca atgccagtag cgctccggcg gaggcgagg agcggtggc gggcccggg gacgcgggg cgcggggcat ggtcgctatc cagtgcatct acgcgctggt gtgcctggtg ggcctggtgg gcaacgcct ggtcatcttc gtgaccttc gtacgcca gatgaagag gtacaccca tctacctgct caacctggcc gtacgcagc agctcttcac gctgagcgtg cccttcgtgg cctcgtcggc cgccctggcg cactggccct tgggtccgt gctgtgcgc gcggtgctca gcgtcgacgg cctcaacatg ttcaccatg tctctgtct caccgtgctc agcgtggacc gctacgtggc cggtgtgac cctctgcgc cgcgaccta cactcccc agcgtggcca agctcatcaa cctggcggtg tggctggcat cctgttggc cactcccc atgcctatct togcagacac cagaccggt cgcgcgcc agccgtggc ctgcaacgtg cagtggccac acccgccgtg gtcggcagtc ttcgtggtc acacttct gctgggttc ctgctgccc gctgggcat tggcctgtg tactgtca tctgggcaa gatgcgccc gtggccctgc ggcctggctg gcagcagcg agcgctcg agaagaaat caccagctg gtcgtgatgg tctgtgctc cttgtgtct tctgtgatc cttctacgt ggtcagctg ctgaacctcg tctgaccag cctgatgcc accgtcaacc agtgtccct tatcctcagc tatgcaaca gctgcgcaa cctattctc tatgcttc tctcgacaa ctccgcga tcctccagc ggttctctg cctgctgctg tgcctcctg aggtgctg aggtgctgag gaggagcccc tggactacta tgcactgct ctaagagca aggtgggc aggtgcatg tgccccccac taaatgcca gcaggaagcc aaccggccg caagcgtc ccctcacca ggaccacc cttctga MSAPSTLPPG GEEGLGTWNP SAANASAPA EAERAVAGPG DARAAGMVAI QCIYALVCIV P GLVGNALVIF VILRYAKMT ATTIIYLNLA VADELFMLSV PFVASSAALR HWPFGSVLCR AVLSVDGLNM FTSVECLTVL SVDRYVAVVH PLRATYRRP SVAKLINLG VLLASLLVTL P IAIFADTRPA RGGQAVACNL QWPHPAWSAV FVYTFLLGF LLPVLAIGLC YLLIVGKMR A VALRAGWQQR RRSEKKITRL VLMVVVFL CMWPFYVQL LNLVWTSIDA TWHVSLIL S YANSCANPIL YGFLSDNFRF SFQRVLCRL CLLEGAGGAE EEPLDYATA LKSKGAGCM CPPLKQOEALQPEPGRKRI PLTRTTF	Homo sapiens
318	4483	Somatostatin NP_001043.1 Receptor Type 4	atggagcccc tgttcccagc ctccagccc agctggaacg cctcctccc gggggtgccc A tctggaggcg gtgacaacag gacgtggtg gggccggcg cctcggcagg ggcggggcg gtgctggtgc cctgtctgta cctgctggtg tgtgcggcg gctggggcg gaacacgctg gtcatctacg tggctgctg cctcgccaag atgaagaccg tcaccaacat ctacattctc aacctggcag tggcgaagt cctgtacatg ctggggctgc cttcctggc cagcagaac gcgcgctct tctggccctt cgccccctc tgtgcccgc tggctatgac gctggacggc gtcaaccagt tcaccagtgt cttctgctg acagtcata gcgtggaccg ctacctggca gtggtgcacc cgtgagctc tctgtgcatg tgcgtgcgc tcctgggtgt cgcggacgtg gcgcggcctt ggttctctg cgcagctgg cgccgcccgc gctgggcaa gctggcgagc caggaggcg gtacctgcaa cgccagctgg cggagcccc tggggctgtg gggcgccgc ttcatcatct acacggcctg gctgggttc ttcgcgcgc tgcgtgcat ctgctgtgc tacctgctca tctgtgtgaa ggtgagggcg gcggcgctg gcgtggcgtg cgtgcggcg cgctcgagc ggaaggtgac gcgcatggtg tgggtggtg tgcgtggtt tgcgggatg tggctgccc tcttcacct caacatctc aacctggcg tggcgctgcc ccaggagccc	Homo sapiens
319	4484	Somatostatin NM_001053 Receptor Type 5		Homo sapiens

320	4484	Somatostatin NP_001044.1 Receptor Type 5	gacctcgccg gacctactt cttcgtggc atcctctct acgccaacag ctgtgccaac cccgtctct acggtctct cttcgacaac ttcgcgaga gttccagaa ggttctgtg ctccgaagg gctctgggtg caagagcgt gacgccaag agccggtcc agacaggatc cgccagcgc aggaggccac gccgcccgc caccgcccg cagccaacgg gcttatgcag accagcaagc tgtga	Homo sapiens
321	4552	Tachykinin Receptor 1	MEPLFPASTP SWNASPGAA SGGGDNRTL GPAPSAGARA VLVPLVLLV CAAGLGGNTL P VIYVLRFAK MKTNNIYIL NLAVADVLYM IGLPFLATON AAFWPFPGPV ICRLVMTLDG VNQTSVFCL TVMSVDRLA VVHPLSSARW RPRVAKLAS AAHWLSLCM SLPLLVFADV QEGGTNASW PEPVGLWGA FIIYTAVLGF FAPLIVCLC YLLIVVKVRA AGRVGCVRR RSEKVTMNV LVVVLVFAAG WLPFFTVNIV NLAVLPQEP ASAGLYFFV ILSYANSCAN PVLVGLSDN FRSQFKVLC LKRGSGAKDA DATEPRPDRI RQOEATPPA HRAAANGLMQ TSKL aattcagagc caccgcgcc agggcgccag tgcattccaga agcgtttata ttctgagcgc A cagttcagct tcaaaaaa gtgctgccc taaaaagcct tccaccctc tgtctgttt agaaggacc tgagccccc ggcgcagcca caggactctg ctgcagagg ggttctgtg cagatagtag gctttacgct tagcttcgaa atggataacg tccctccgtt gactcagac ctctcccaa acatctccac taacacctg gaacccaatc agttcgtgca accagcctgg caaattgtcc ttggggcagc tgcctaacg gtcattgtgg tgacctctgt ggtgggcaac gtggtagtga tgtggatcat cttagccac aaagaatga ggacagtgc gaactatatt ctggtgaacc tggccttcgc ggagccctcc atggtgcat tcaatacagt ggtgaacttc acctatgctg tccacaacga atggtactac ggctgttct actgcaagt ccacaacttc tttccatcg ccgtgtctt cgcagctatc tactccatga cggctgtggc cttgtagg tacctggcca tcatacatc cctccagccc cggctgtcag ccacagccc caaagtgtgc atctgtgtca tctgggtcct ggtctctctg ctggccttc cccagggtc ctactcaacc acagagacca tgccagcag agtcgtgctg atgctgcat ggccagagca tccgaacaag atctatgaga aagtgtacca catctgtgtg actgtgctga tctacttct cccctgctg gtgattggct atgcatacac cgtagtggga atcacactat gggccagtga gatccccggg gactcctctg accgtacca cgaagagtc tctgccaagc gcaaggtggt caaatgatg attgtcgtgg tgtgcacct cgcctatcgc tggctgccc tccacatctt cttcctctg ccctacatca accagatct ctacctgaag aagtttatcc agcaggtcta cctggccatc atgtggctgg ccatgagctc caccatgtac aacccatca tctactgctg cctcaatgac aggttccgtc tgggttcaa gcatgcttc cgggtgctgc cttcctcag gcccgggcag tatgaggggc tggaaatgaa atccaccgg tatctccaga cccagggcag tgtgtacaa gtcagccgcc tggagaccac catctccaca gtggtggggg cccagagga ggagccagag gacggcccca agggcacacc ctgctcctg gactgacct ccaactgctc ttcacgaagt gactccaaga ccatgacaga gacttcagc tttcctcca atgtgctc ctaggccaca ggcctttgg caggtgcagc cccactgccc ttgacctgc cttcctcat gcatggaaat tcccttcac tggaaaccatc agaaacccc tcaactggg acttgcaaaa aggtcagta tgggttaggg aaacattcc atctgtagt caaaaaatc caattctcc ctatcttgc cacctcatg ctgtgtgact caaaccaat cactgaact ttgtgagcct gtaaaataaa aggtcggacc agctttctc caagagcca atgcattcca ttctgggaag tgactttggc	Homo sapiens

322	4552	Tachykinin Receptor 1	NP_001049.1	<p>tgcatcgag tgctcattc aggatg</p> <p>MDNVLPVDS LSPNISTNTS EPNQFQPAW QIVLWAAAYT VIVTTSVGN VVMWIIIAH P</p> <p>KRMRTVTNYF LVNLAFAEAS MAAFTVVNF TYAVHNEWY GLFYCKFHF FPIAAVFASI sapiens</p> <p>YSMTAVAFDR YMAIHPLOP RLSATATKV ICVIWLALL LAFFQGYST TETMPSRVVC</p> <p>MIWEHPNK IYKVIHICV TVLIYFLPL VIGYATWVG ITLWASEIPG DSSDRYHEQV</p> <p>SAKRKVVNM IVVCTFAIC WLPFHIFLL PYINPDLYLK KFIQQVYLAI MWLAMSSTMY</p> <p>NP1IYCCLND RFLGFKHAF RCCPFISAGD YEGLEMKSTR YLQTQGSVYK VSRLETTIST</p> <p>VGAHEEPE DGPATPSSL DLTSNCSSRS DSKWTESFS FSSNVL</p>	Homo sapiens
323	4687	Thrombin Receptor	NM_001992	<p>ggcgggggc gcacagagc agaggggctt gcagcgccg gcgagggac cgcggggagg A</p> <p>ggcgccgag cggctccagc gcagagactc tcactgcacg ccgagggccc ctctcctcgt</p> <p>ccgcccgcg gaccgcgc cccagtcgcg ccccgccccg ctaaccggcc cagacacagc</p> <p>gctgcgcgag ggtgccttg accctgatct taccgtgg caccctgccc tctgcctgcc</p> <p>gcgaagaccg gctccccgac ccgcagaagt caggagagag ggtgaagcgg agcagccga</p> <p>ggcggggcag cctcccgag cagcgccgg cagagcccg gacaaatgggg ccgcggcgcc</p> <p>tgctgctggt ggcgcctgc ttcagtcgtt cgcggccgct gttgtctgcc cgcacccggg</p> <p>ccgcaggcc agaataaaa gcaacaaatg ccaccttaga tccccgtca ttctctca</p> <p>ggaacccaa tgataaatat gaacattttt gggaggatga ggagaaaaat gaaagtgggt</p> <p>taactgaata cagattagtc tcatcaata aagcagtc tctcaaaaa caacttcctg</p> <p>cattcatctc agaagatgcc tccggatat ttgtagtca gctccccc aaacatcatg cctttgtcc</p> <p>catctgtga caccggagt ttgtagtca gctccccc cggcggtggt gtacatgctg cactggcca</p> <p>tgctcatct gaaatgaag gtcaagaagc cgtgtgtcc ccttaaat cagctattac ttctcggca</p> <p>gtgattggca gtttgggtc gaattgtgc gctcgtcac tgcagcatt tactgtaaca</p> <p>tgtaacgctc tatctgtgc atgacagtc taagcattga ccggtttctg gctgtggtgt</p> <p>atccatgca gtccctctcc tggcgtactc tgggaaggcc ttccttcact tgtctggcca</p> <p>tctgggcttt ggcacatgca ggggtagtgc ctctcgtct caaggagcaa accatccagg</p> <p>tgcccggtct caacatcact acctgcatg atgtgctcaa tgaacccctg ctcgaaaggct</p> <p>actatgccta ctacttctca gcttctctg cgtctctct tttgtgccc ctgactattt</p> <p>ccacggctcg ttatgtgtct atcattcgat gcttagctc ttccgagtt gccaacgca</p> <p>gcaagaagtc ccgggctttg ttccgttcag ctgctgttt ctgcattctc atcattgct</p> <p>tccgacccac aaacgtctc ctgattgccc attactcatt cctttctcac acttccacca</p> <p>cagaggctgc ctactttgcc tactctctct gtgtctgtg cagcagcata agctcgtgca</p> <p>tccgacccct aatttactat taogtttct ctgagtgcca gaggtacgtc tacagtatct</p> <p>tatgctgcaa agaaagtcc gatccagca gttataacag cagtgggagc ttgatggcaa</p> <p>gtaaaatgga tacctgctct agtaacctga ataacagcat atacaaaaa cgtttaactt</p> <p>aggaagggg actgctggga ggttaaaaaa aaaagttaa aacgtgagga</p> <p>ttctattagt cccacccaa actttattga ttccctctc aaacacacag atgtacgact</p> <p>tgcatacctg ctttttatgg gactgtcaa gcatgtatt ttgtcaatta ccagaaagat</p> <p>aacaggacga gatgacggtg ttattccaa ggaatattgc caatgctaca gtaataaatg</p> <p>aatgtcactt ctggatatag ctaggtgaca tatacatact tacatgtgtg tatatgtaga</p>	Homo sapiens

324	4687	Thrombin Receptor	NP_001983.1	<p>tgtatgcaca cacatatatt atttgcagtg cagtatagaa taggcacttt aaacactctt tccccgcac ccagcaatt atgaaaataa tctctgattc cctgatttaa tatgcaagt ctaggttggt agagtttagc cctgaacatt tcatggtgtt catcaacagt gagagactcc atagtttggg cttgtaccac ttttgcfaat agtgtattt tgaatttgtt tgacggcaag gtttaagta ttaagaggta agacttagta ctatctgtgc gtagaagttc tagtgtttc aattttaaac atatccaagt ttgaattcct aaaattatgg aaacagatga aaagcctctg ttttgatag gtagtatatt ttacatttt acacatgta cacataagcc aaactgagc ataagtctc tagtgaatgt aggttggtt tcagagtagg ctattcctga gagctgcatg tgtccgcccc cgatggagga ctccaggcag cagacacatg cactggggcc actacattg gattggccag aaaccttct gctgagcctc acagcagtga gactggggcc actacattg ctccatctc ctgggattgg ctgtgaactg atcatgttta tgagaaactg gcaaaagcaga atgtgatc ctaggaggta atgacctaga aagactctc taccatctt aaacaaacg aaagaaggca tggacttctg gatgcccac cactgggtgt aaacacatct agtagttgtt ctgaaatgtc agttctgata tggaaagcacc cattatgcg tgtggccact ccaatagggtg ctgagtgtag agagtggaaat aagacagaga cctgcccctc agagcaaaagt agatcatga tagagtga tgtatgtga ataatatgt tttctctgt ggtataact taatgaaaac aatgcagtac agttgaaca ttttggttac tattcttgt taatttggtt ctttaagaa tcaatcatgt cagctgtctt aggacataa gattgctcaa atcaggtttt ttttaagaa gaaaattatt ctataattc agaaataaca gaagaaaata gaattgacat tgaattctag gaaaattatt ctataattc cattactta agacttaatg agactttaaa agcattttt aacctcctaa gtatcaagta tagaaaatct tcatggaatt cacaagtaa tttgaaatt aggttgaac atatctcta tcttacgaaa aaatggtagc attttaaca aaatagaaa tgcgaaggca aatgtttatt taaaagagca gcccaggcgc ggtggctcac gctgtaac ccagcacttt gggaggtga ggcgggtgga tcacagggtc aggatagca gaccatctg gctaacacgg tgaacccgt ctctactaaa aatgcaaaaa aaattagcgc ggcgtggtgg caggcacctg tagtcccagc tactcgggag gctgaggcag gagactggcg tgaacccagg aggcggacct tgtagtgagc cgagatcgcg ccactgtgt cagactcggg caacagagca agactccatc tc MGPRRL1LVA ACFSLCGPLL SARTRARPE SKATNATLDP RSFLLRNPND KYEPFWEDEE P KNESGLTEYR LVSINKSSPL QKQLPAFISE DASGLTSSW LTLFVPSVYT GVTVSLPLN IMAIWVFIK MKVKKPAVVY MLHLATADVL FVSVLPFKIS YFSGSDWQF GSELCRFVTA AFYCNMYASI LMFTVISIDR FLAVVPMQS LSWRTIGRAS FTCLAIWALA IAGVVPVLK EQTIQVPLN ITTCHDLNE TLLEGYAYY FSASFVFFF VPLIISTVCY VSIIRCLSSS AVANRSKSR ALFLSAAVFC IFIICFPTN VLLIAHYSFL SHTSTTEAY FAYLLVCVVS SISSCIDPLI YYVASSECOR YVYSILCKE SSDPSSSYNS GQLMASKMDT CSSNLNNSIY KKLLT</p>	Homo sapiens
325	4734	Thyrotropin Releasing Hormone Receptor	NM_003301	<p>tagcttcaag ccactgaaga tggaaaacga gacagtcagt gaactgaacc aaacacagct A tcagccacga gcagtggttg ccttagaata ccagtggtgc accatcttac ttgtactcat tatttggtgc ctgggcatgg taggcaacat catggttagtc ctggttgtea tgagaacaa gcacatgagg cccccacaa actgctacct ggtgagcctg gcagtagctg atctcatggt cttggtggcc gcaggcctcc ccaacataac agacagtatc tacggttctt ggtcttatgg</p>	Homo sapiens

326	4734	Thyrotropin Releasing Hormone Receptor	NP_003292.1	ctatgttggg tgcctctgca ttacttacct ccagttattg ggaattaatg catcctcttg ttcaataaca gccttttacc ttgagaggta catagcaatc tgtcacccca tcaaaagccca gtttctctgc acattttcca gagccaaaaa gattatcatc ttgtctctgg ctttcacatc tctttactgt atgctctggg tcttcttgct ggatctcaat attagcacct acaaagatgc tattgtgata tctctgtggc acaagatctc caggaattac tactcaccta ttacctaata ggactttggg tctttttatg ttgtgccaat gatctctgct accgtctctc atggattcat agctagaatc cttttcttaa atccattcc ttcatgacct aaagaaaaact ctaagacatg gaaaaatgat tcaaccatc agaacacaaa tctgaatgta aatacctcta atagatgttt caacagcaca gtatcttcaa ggaagcaggc caccaagatg ctggcagtggt ttgtaattct gtttgcccct ttatggatgc cctacaggac tctagtgtgt gtcactcatc ttctctccag tcctttccaa gaaaattggg ttttgcctc ttgcagaatt tgcatttacc tcaacagtgcc catcaaccgg gtgatttaca atctcatgtc ccagaaattc cgtgcagcct tcagaaagct ctgcaactgc aagcagaagc caacagagaa accgtctaac tacagtgtgg ccttaaatga cagcgtcatc aaggagtcag accatttcag cacagagctt gatgatata ctgtcactga catttacctg tctgccacaa aagtgtcttt tgatgcaccc tgccttggtt ctgaggtatc ctttagccaa agttgattca tgaattagaa gaaaatggat gacaaagaaa ttgagaatct gtgcagtcac caacaaaaag gagaacatgg ccaatagtca tatgtgaaga cagagcagat cagctcttgt caatgctcta acaaaccc	Homo sapiens
327	4944	Angiotensin II Type 1 Receptor	NM_000685	atcctggagct gctcctcgc caatgatctc agcgcctgac agccaggacc ccaggcagca A gcgagtgaca gacgtctgg accggcgcgc cgtcagcagc tctgccgggc cgcggcgggtg atcgtatgggg agcggctgga gcggaccag cagttagagg cgcacagccg ggacgcggag gcggcggggc ggagaccgc accagccag cggccctcg gcgggacgtg acgcagcgc cggggcgcgg gtttgatatt tgacaaattg atctaaaatg gctggggttt tatctgaata actcactgat gccatcccg aaagtcggca ccagtggtat ttgatatagt gtttgcaaca aatcgaccc aggtgatcaa atgatctct aactctcta ctgaagatgg tattaaga atccaagatg attgtcccaa agctggaagg cataattaca tattgtcat gattcctact ttatacagta tcatctttgt ggtgggaata ttggaaca gcttggtgtg gatagtcatt tacttttata tgaagctgaa gactgtggcc agtgttttc ttttgaattt agcactggct gacttatgct ttttactgac ttggccacta tgggtgtgtc acacagctat ggaataccgc tggccctttg gcaattacct atgttaagatt gcttcagcca gcgtcagttt caacctgtac gctagtgtgt ttctactcac gtgtctcagc attgatcgat accgtggtat tgttaccaca atgaagtccc gccttcgacg cacaatgctt gtaggcaaa tcacctgcac catcattgg ctgctggcag gcttgccagc ttgcccagct ataatccatc gaaatgtatt ttcataggag aacaccaata ttacagtgtg tgctttccat tatgagtccc aaatttcaac ccttccgata	Homo sapiens

328	4944	Angiotensin II Type 1 Receptor	NP_000676.1	<p> MIILNSSTEDG IKRIQDDCPK AGRHNYIFVM IPTLYSIIFV VGIFGNSIVV IVIYFYMKLK P TVASVFLNL ALADLCFLLT LPLWAVVTAM EYRWFPGNYL CKIASASVSF NLYASVFLLT CLSIDRYLAI VHPMKSLRR TMLVAKVTCI IILWLLAGLAS LPALIHNRNF FIENTNITVC AFHYESQNST LPIGLGLTKN ILGFLEPFLI ILTSYTLIWK ALKKAYEIQK NKPRNDDIFK I IMAIVLFFF FSWIPHQIFT FLDVLIQLGI IRDCRIADIV DTAMPITICI AYFNCLNPL FYGLGKKFK RYFLQLLKYI PPKAKSHSNL STKMSTLSYR PSDNVSSSTK KPAPCFEVE acgtcccagc gtctgagaga acgagtaagc agaaattcaa agcattctgc agcctgaatt A ttgaaggagt gtgttttagc actaagcaag ctgattttatg ataactgctt taaactcaa caaccaaaag cataagaact aggagctgct gacatttcaa tatgaagggc aactccaccc ttggccactac tagcaaaaac attaccagcg gtcttcactt cgggcttctg aacatctctg gcacaaatga gtctaccttg aactgttcac agaaaccatc agataagcat ttagatgcaa ttcctattct ttactacatt atattgttaa ttggatttct ggtcaatatt gtcgtgggta cactgttttg ttgtcaaaaagg ggtcctaaaa aggtttcttag catatacatc ttcaacctcg ctgtggctga ttactcctt ttggctactc ttctctatg ggcaacctat tattctata gatatgactg gctcttttga cgtgtgatgt gcaaaagtttt tggttctttt cttacccctga acatgtttgc aagcattttt ttatatcact gcattagagt tgataggtag caatctgtca ttacccctt tctgtctcaa agaagaaatc cctgggaagc atcttatata gttcccttgg </p>	Homo sapiens
329	4946	Angiotensin II Type 2 Receptor	NM_000686	<p> gggctgggcc tgacaaaaaa tatactgggt ttctgttttc cttttctgat cattcttaca agttatactc ttatttggaa ggccttaaag aagccttatg aaattcagaa gaacaaaaca agaaatgatg atatttttaa gataattatg gcaattgtgc ttttctttt cttttctcgg attcccacc aaatattcac ttttctggat gtatigattc aactaggcat catacgtgac tgtagaattg cagatatgtt ggacacggcc atgctctaca ccatttctat agcttatttt aacaattgcc tgaatcctct tttttatggc ttctgggga aaaaatttaa aagatatattt ctccagcttc taaaatatat tccccaaaa gccaatccc actcaaacct ttcaacaaaa atgagcacgc tttcctaccg cccctcagat aatgtaagct catccaccaa gaagcctgca ccatgttttg aggttgatg acatgttoga aacctgtcca taaagtaatt ttgtgaaga aggagcaaga gaacattcct ctgcagcact tcactaccaa atgagcatta gctacttttc agaattgaag gagaaaatgc attatgtgga ctgaaccgac ttttctaaa gcttgaacaa aagcittttct ttctttttgc aacaagacaa agcaaaagcca cattttgcat tagacagatg acggctgctc gaagaacaat gtcagaaact cgatgaatgt gttgatttga gaaattttac tgacagaaat gcaatctccc tagcctgctt ttgtcctgtt attttttatt tccacataaa ggtatttga atatatataa tcgttagagg agcaacagga gatgagagtt ccagattgtt gtgtccagtt tccaaaaggc agtaaaagtt tcgtgccggt ttccagctat tagcaactgt gctacacttg cactgggtac tgcacatttt gtacaaagt atgctaagca gtagtctgca agttgcagat ctttttttga aattcaacct gtgtcttata ggtttacact gccaaaacaa tgcccgtaag atggcttatt tgtataatgg tgttactaaa gtcacatata aaagtttaaac tactgtaaa ggtgctgcac tgggtcccaag tagtagtgct ctcctagtag attagtttga tttaatatct gagaagtgtg tatagtttgg ggtaaaaaga ttatatatca taaagtatgc cttctgtttt aaaaaaagta tatattctac acatatatat atatgtatat ctatatctct aaactgctgt taattgatta aaactgtgga agtttatatt tacttataaa taaaaaatt ttattgc </p>	Homo sapiens

330	4946	Angiotensin II Type 2 Receptor	NP_000677.1	<p> tttggtgtat ggctgtgttg tctcattgc caacatttta ttttcgagac gtcagaacca ttgaatactt agagtggaat gcttgcatat tggtttccc acctgagaaa tatgcccaat ggtcagctgg gattgcttta atgaaaaata tccctggttt tattatccct ttaatatcca tagcaacatg ctattttgga attagaaaac acctactgaa gacgaatagc tatgggaaga acaggataac ccgtgaccaa gtccctgaaga tggcagctgc tgtgttcttg gccctcatca tttggtgctt tccctccat gttctgacct tccctggatgc tctggcctgg atgggtgtca ttaatagctg cgaagtata gcagtcattg acctggacct tccctttgcc atcctcttgg gattcaccaa cagctgcgtt aatccgtttc tgtattgttt tgttggaac cgtttccaac agaagctccg cagtggtgtt agggttccaa ttacttggct ccaagggaac agagagagta tgtcttgccg gaaaagcagt tctcttagag aatgggacct cttgtgtct taaacggaga gcaaaatgca tgtaataaac atggctactt gctttgagc tcaccagaat tatttttaag tggttttaat aaataataa aatttccct aatctttct gaatcttctg aaacaaatg taactatggt tatcgtccag tgacttccag gaatgccc atgtttctga tatgtttgta caagatttca ttggtgagac atatttaca ctagaagta actggtgata tatctcaaat tgtaattaat aatagattgt gaataatgat ttggggattc agatttctct ttgaacatg cttgtgttcc ttagtgggtt ttatatcca tttttatcag gatttctct tgaaccagaa ccagcttttc aactcattgc atcatttaca agacaacatt gtaagagaga tgagcacttc taagttgagt atattaat agattagtac tggattattc aggttttag catatgcttc tttaaaaacg ctataaatta tattctctt gcatttccat tgagtggagg tttatagtta atctataact acataattgaa tagggctagg aatatagatt aatcataact cctatgcttt agcttatttt tacagttata gaaagcaaga tgtactataa catagaattg caatctataa tattgtgtg ttcactaac tctgaataag cactttttaa aaaactttct actcatttta atgattgttt aaagtttct atttctctg atacttttt gaaatcagta aacactgtgt attgtgttaa aatgtaagg tcacttttca cactcttgac ttttagatg tgctgctttg atatatagga cattgatttg atttttatta ttaatgcttt ggtctgggt tgtttcctaa aatatctggg tggcttaaaa aaaactcttt aacttgtaat aaacctttaa ctggcatagg aaatggtatc cagaatgaa ttttgctaca tgggggtctgg gtgggggcaa agagaccag tcaattacat gtttggtacc aagaaaggaa cctgtcaggg cagtacaatg tgactttgaa aatataacc gtgggggtag tttacccta tatctataa cactgtttgt tccagaatct gtatgattct atggagctat tttaaaccaa ttgcaggtct aga MKGNSLIATT SKNITSLHF GLVNISGNNE STINCSQKPS DKHLDAIPIL YYIIFVIGFL P VNIVVTLFC CQKGPVKVSS IYIFNLAVAD LLLLATLPLW ATYYSRYDW LFGPVMCKVF GSFLTNMFA SIFFITCMV DRYQSVIYFP LSQRNPWQA SYIVPLVWCM ACLSSLPTFY FRDVRTIEYL GVNACIMAF PEKYAQMSAG IALMKNILGF IIPLIFIATC YFGIRKHLK TNSYGNRIT RDQVLKMAA VVLAFLIWL PFHVLTFDA LAWMGVINSC EVIAVIDIAL PFAILLGFTN SCVNPFLYCF VGNRFQQLR SVFRVPITWL QGKRESMSCR KSSSLREMET FVS </p>	Homo sapiens
331	5072	Pyrimidinerg ic Receptor P2Y4	NM_002565	<p> atggccagta cagagtccct cctgttgaga tccctaggcc tcagcccagg tccctggcagc A agtggagtggt agctggactg ttggtttgat gaggatttca agttcatcct gctgctgtg agctatgcag ttgtctttgt gctgggcttg ggccttaacg cccaacct atggctcttc atcttccgcc tccgacctg ggatgcaacg gccactaca tgttccacct ggcattgtca </p>	Homo sapiens

332	5072	Pyrimidinerg NP_002556.1 ic Receptor P2Y4	gacacctgt atgtgctgtc gctgcccacc ctcatctact attatgcagc ccacaaccac tgcccctttg gcaactgagat ctgcaagttc gtcgcttttc tttctattg gaacctctac tgcaagtctc ttttctctac ctgcatcagc gtgcacgct acctgggcat ctgccacca cttggggcac tacgctggg cgcctctgc ctgcacggcc ttctctgctt ggcagtttgg ttggtcgtag cgggctgctt cgtgcccac ctgttctttg tcacaaccag caacaaaggg accacgctcc tgtgccatga caccactgg cctgaagagt ttgaccacta tgtgcacttc agctcggcg tcatggggct gctctttggc gtgcctggcc tggcactct tgtttgctat ggactcatgg ctgctgctct gtatcagccc ttgcaggct ctgcacagtc gcttcttcgc ctcggctctc tcgcgacccat agctgtggtg ctgactgtct ttgctgtctg ctctgtgct ttccacatca ccgcacccat ttactacctg gccaggctgt tggaaagctga ctgccagta ctgaacattg tcaactgtgt ctataaagt actcggcccc tggccagtcg caacagctgc ctggatectg tgcctactt gctcactggg gacaaatct gacgtcagct ccgtcagctc tgtgtgtgtg gcaagcccca gcccgcacg gctgctctt cctggcact agtgcctctg cctgaggata gcagctgcag gtggggcgcc acccccagg acagtagctg ctctactct aggcagata gattgtaa	Homo sapiens
333	5117	Vasopressin NM_000706 V1A Receptor	taattgcttg aaggattttt tccagacagg tggctggaa acctttacc tattacctc A catccctgaa ccatittcaat ctctgctc ctgatatct tggagaaat gaacaaacac aacacagctt tcagttttta gacatttcc cccatcacga acattgtctt acttgatctt ccgatgacc tcaacaacag gaaaggcagg tctttcatt tccatttata agacgcacag accagatt atctagccac aggaagcagg actccagatt tcaagtcag catctcaacg tgacaacctt ggtaaactct catgaacgga ctggatagta aagtggaatt attactgaga actgcaatga ataaaactt ttgcattttt tgcctacgtt tcacagaggg tgatatttt ctgagggcaat taaatttata ccacggccac aatactgaaa cgttctgacc acaaaagtc tgctctgca tctacacagc agataactgc agaaacggct tctttcttc cttgtaaaat tgctgaaaa cagctcccc ttgctgtccg tggaggcata tcttcaccaa cgttaaaaca gagctgagg agatgcatt tctgctccc tccgcctg cagagggct ccagctgttc agagtaacgg attactaggt aggtgtgtg tctccctct tcccaggcc tcttctctt ctttgagatt gcctcttct tactctctg caccaggacc gggcgggtt tctgtccctt gcctggaca gcactgcctg gatggcgtt gtcggcagc tgctcttgt ccaccaaaa agatgtccc acgactcagt agtaaccaga cgttccccac ggaccactgc ggccaaattt cggccatccc cgctgtggga atcaggcttt tccgcagaa aacccagga atctagagaa aactccttaa gtccctagtc tccatagaga aaaccaggag acactcccc caaacccgc tgtgaatata ggcacagcag ccactggggc ctgaaagtga tgagtgcgtt ctcccgctg caaacatagg gtaataaata gcatgcatca agacgcttac taggaagaga tagctcttta	Homo sapiens

agtcacgagg ggggagaaat gtttgcccg ggaataattg cctggggaat aaatttgcc
agactgctgc acggtgagc tcggtagaa ggaagaaacc cggactggag gagtgagggt
cgagagccag gttcaggtgc aggagctaga tgcgtgagc cgggtgctg gactggaggt
ttccagggtac cgcgcttagc gtgcctgttg aagtcaaatg catggttaag gaggtagcgc
aggaaggcta gtgagggaag cttgtggaac cggctacgag ccagaaaaag gcactgactgc
tcagttgtcc aagtttttgg aagggaag cgggaaagc cccctccac gtgatgcaga ggacaaac
aggaggaatc tgcgagctc ccagctccac cccctccac aggtagcggg gactaggcaa ccagcagctc
cgacgtaggg agaggaataa ataaactcc aggtagcggg gactaggcaa ccagcagctc
tccggcaata gggcgaggg gagcgcgtcc caaggaaca agcaccgcat aataacttga
gttgggaac cagtgcttc ggaagctcgg agctcacctt cccgacctgc ccgaagtga
aaaaaggcag agcaggaga ggggccagct caccctgctg agagctgctc agtgggcagg
cgggacgctg ctccgggaga cggccactgg agggatcgca gagccggca agctgcgagc
gcgcaaaaga cctgcgctt cggacgagga gccaaagtcc tccgagacgg ggagggagcg
cgccgcgagg gctggagctc cgaagaggc cgaagtagag ctgcatggac agcatgcgc
tctccgcgg tccgacgcg gggccctcgg gcaactccag ccatggtgg cctctggcca
ccggcgctgg caacaaagc cgggaggcgg agccctcgg ggagggcaac gggccacga
gggacgtgcg caacgaggag ctggccaaac tggagatcgc cgtgctggcg gtgactttcg
cgtggccgt gctgggcaac agcagctac tctggctct cgcacggag cgcgcaaga
cgtcccgcat gcactcttc atccgacac tcagctggc cgacctggcc gtggcattct
tccaggtgct gccgcaaatg tgctgggaca tcacctagg cttccgcgcc cccgactggc
tgtgcgcgt ggtgaagcac ctgcaggtgt tcggcatgtt tgcgtcgcc tacatgctgg
tagtcatgac agccgaccgc tacatgcgg tgtgccacc gctcaagact ctgcaacagc
ccgcgcggcg ctgcgcctc atgatcgagg ccgcctgggt gctgagcttc gtgctgagca
cgccgcagta cttcgtcttc tccatgatcg aggtgaaca tglcaccag gcccgagct
gctgggccac cttcatccag cctgggggtt ctctgacctc cgtgacctgg atgacggcg
gcactcttgt ggcgcccgtg gtcactcttg gtacctgcta cggcttcac tgctacaaca
tctggtgcaa cgtccgcggg agacggcgt cgcgcccag caagggtgca gagcaagcgg
gtgtggcctt ccaaaagggg ttccgtgctg caccctgtgt cagcagcgtg aagtcattt
cccgggcca gatccgcag gtgaagatga cttttgtgat cgtgacggct tacatcgtct
gctggggccc tttcttcac atccagatgt ggtctgtctg ggatcccatg tccgtctgga
ccgaatcga aaccctacc atcaccatca ctgcattact ggttccctt aatagctgt
gtaatccctg gatatacatg ttttttagtg gccatctcct tcaagactgt gtcaaaagt
tcccatgctg ccaaaacatg aaggaaaaat tcaacaaaga agatactgac agtatgagca
gaagacagac tttttattct acaaatcgaa gcccaacaaa cagtacgggt atgtggagg
actgcctaa atcttccaag tccatcaaat tcattcctgt ttcaacttga gccttgcat
catgcaactt gattcttgtg attgactttt tggctcatta gctgaattga gctagaatc
acaagaacaa atacacttta ttaataaac cataaatcaa ttcatgtgt atgagactgt
gtttctagt gcattttcat attgtacca aaactagac attatttgt atggaatatt
aatggaaca tgctgtacta aaatagcag gctgattcc cagaaatca acagaagta
tattttaaa ggaataatca taaccacct agctttatat tttgtgttta gttctttaa
ttttcattc taacataagt aagacttgat tggtttaaaa gtcacataaa atgcggcact

334	5117	Vasopressin V1A Receptor	NP_000697.1	<p>atctctgaac aaagagagct catcatcagt cttaatatc agagaaact tcagagaaat tatgttttca tccattaaaa ttaatttggt catcagaaaa tgcagcctta aacagtgtcc aggagatggg atggtacctc ctaggagtag aagtgcctgg ggtgtaata gctcctgctc attgtggcca gttagagatt ctattagaag ctataatca ccttgcaatt caaaatggtg actttacaac tggcagtggc ctctctttgg ttctcacat attattggc agaaaaagca tgaaaactga gatgtgaag gtgagagaa atgttgactg gcaaaaaa tctttttcc cccactgcaa ggttgtttta agtcagatt tgtataagga agccaaatt ttattaaag agtagaaaag gattgcttaa ggtactctgg actttctt ggacattgta aacgtatatt gatcagtatt acaagggtat cctgtgctat gctggacatt acaagatca ttatctcat gtttgggaa ttc</p>	Homo sapiens
335	5118	Vasopressin V1B Receptor	NM_000707	<p>TFEAVVLGNS SVLLALHRTF RKTSMHLFI RHLSLADLAV AFFQVLPQMC WDITYRFRGP DWLCRVVKHL QVFGMEASAY MLVMTADRY IAVCHPLKTL QQPARRSRILM IAAAWVLSFV LSTPOYFVFS MIEWNNVTKA RDCWATFIQF WGSRAYVTWM TGGIFVAPV ILGTCYGFIC YNIWCNVRGK TASRQSKGAE QAGVAFQKGF LLAPCVSSVK SISRAKIRTV KMTFVIVTAY IVCWAPFFII QMWSVWDPMS WTESENPTI TITALLGSLN SCCNPWIYMF FSGHLIQDCV QSFPCQNMK EKENKEDTDS MSRRQTFSYN NRSPTNSTGM WKDSPKSSKS IKFIPVST</p>	Homo sapiens

Homo
sapiens

336 5118 Vasopressin NP_000698.1 V1B Receptor
 ccaccaatgt ggctttcacc atctctatgc ttttgggcaa cctcaacagc tgctgcaacc
 cctggatcta catgggcttc aacagccacc tgttacgcgc gccctgcgt caccttgccct
 gctgtggggg tccccagccc aggatgcgc ggcggtcttc cgacggcagc ctctcgagcc
 gccacaccac gctgctgacc cgctccagct gcccgccac cctcagccctc agcctcagcc
 taacctcag tgggagggccc aggcctgaag agtcaccaag ggaacttggag ctggcagatg
 gggaaggcac cgctgagacc atcatctttt aggaagact cgctgggggtc tggtagctcc
 cccaggacta gtgaggttc tctgcccacc tcaggactg gaaatgagag ctgggaggggt
 aagggttggg gttagaggag gccctgctb agcagagcc aaaggccag aatgggtccc
 ctacctggt gtcacagctg cccctagtgt gagggtgcc tcaataagctc ccaatctcag
 aactggcag tcaggagaaa tcaactgcc tgtctccctg gtcctgccc attcataagg
 tgtccatgca cacatggtgt cccagatcta ggaggcccta ggaatggtgt gtctagggt
 ccacgggtgg caggaattca gaggtggcc ttgtgacctg gctacctgtc tccattctaa
 cctgactggc acatctcagc ctaaccagga gagggagaaa gtgaaaaacc gtgaggagga
 ctctatttgg atcctggatt tgttgtgtt gttgtgttg ttgttagaga gaa
 QLGKRKSRMH LFLVHLALTD LAVALFQVLP QLLWDITYRF QGPDLLCRAV KYLQVLSMFA
 STYMLLANTL DRYLAVCHPL RSLQPGQST YLLIAAPWLL AALFSLPQVF IFSLREVIQ
 SGVLDWADF GFWGPRAYL TWTTLAIFVL PVTMLTACYS LICHEICKNL KVKTQAWRVG
 GGGWRTWDRP PSPTLAATTR GLPSRVSSIN TISRAKIRTV KMTFVIVLAY IACWAPFFSV
 QMWSVWDKNA PDEDSTNVAF TISMLLGNLN SCCNPWYMG FNSHLLPRPL RHLACCGGPQ
 PRMRRLSDG SLSSRHTTLL TRSSCPATLS LSLSLTLSGR PRPEESPRDL ELADGEGTAE
 TIIIF

Homo
sapiens

337 5119 Vasopressin NM_000054 V2 Receptor
 agaagatcct gggttctgtg cactcgtctg tctgaccatc cctctcaatc ttccctgccc A
 aggaatggcc atactggcc acacacgctg cacacacgcc aacaggcatc tgccatgctg
 gcatctctat aagggtctcca gtccagagac cctgggacct tgaacttgcct cctcaggcag
 aggctgagtc cgcacatcac ctccaggccc tcagaacacc tgccccagcc ccaccatgct
 catggcgtcc accacttccg ctgtgacctg gcatccctct ctgccccagcc tgccccagcaa
 cagcagccag gagaggccac tggacacccg ggaacccgtg ctgagccggg cggagctggc
 gctgctctcc atagtctttg tggctgtggc cctgagcaat ggcttgggtg tggcgccct
 agctcgccgg gcccgccggg gccactgggc acceatacac gtcttctattg gccacttgtg
 cctggccgac ctggccctgg ctctgttcca agtctgccc cagctggcct ggaaggccac
 cgaccgttc cgtgggcccag atgcccctgt tcgggcccgt aagtatctgc agatggtggg
 catgtatgcc tctctctaca tgatcctggc catgacgtg gaccgccacc gtgcccattg
 ccgtcccatg ctggcgctacc gccatggaag tggggtctac tggaaacggc cgggtgctagt
 ggcttgggcc ttctcgctcc ttctcagctt cccccagctc ttcatcttctg cccagcgcaa
 cgtggaaggt ggcagcgggg tcaactgactg ctgggcccctg ttgctggagc cctggggccc
 tcgcacctat gtcacctgga ttgcccctgat ggtgttctgt gcaactacc tgggtatcgc
 cgctggccag tgcctcatct tccgggagat tcatgcccag ctggtgcccag ggcateaga
 gaggcctggg gggcgccgca ggggacccg gacaggcagc cccggtgag gaggccacgt
 gtcagcagct gtggccaaga ctgtgagat gacgtagtgt atgtggtg tctatgtgct
 gtgctggggca ccttcttcc ttggtgcagct gtgggcccgcg tgggaccggc aggcacctct

338	5119	Vasopressin V2 Receptor	NP_000045.1	MMASTTSVAV ALARRGRGH VGMYSYMI RNVEGSGVT SERPGRRRG PLEGAPFVLL ASSSLAKDTS	PGHPSLPSLP WAPIHVFIGH LAMTLDRHRA DCWACFAEPW RRTTYVTWIA HVSAAVAKTV NPMIYASFSS SNSSQERPLD LCLADLAVL ICRPMLAYRH GSGAHNRPV LMVFVPTLG IAACQVLIFR EIHASLVPGP RMTLVIVVY VLCWAPFFLV QLMAAWDPEA SVSSELRSL CCARGTPPS LGPQDESCIT	TRDPLLRAE FQVLPQLAWK ATDRFRGPD LVAWAFSLLL SLPQLFIFAQ IAACQVLIFR EIHASLVPGP RMTLVIVVY VLCWAPFFLV QLMAAWDPEA SVSSELRSL CCARGTPPS LGPQDESCIT	Homo sapiens
339	5133	Peropsin	NM_006583	gaataagcct ataattagg aacacaatat taatagttct ttattaacct cctcagatct tgaatatatt acctgacct tgattctggg ctagttatgc gatcttttgt tgatgtttta gcactgagtc tcagatctgy cttttggtga aatctcttac caatgcttgc ccatggatgt acgtatcaa gatcaagtgc tgctccggtt acttattgct	tcgataatta caacagttca tggtgcaact gggcatcttc ggctgttact gtatggaaat ttttggaatg ctgccttct agcctggatc ccagatcct gtcttacacc ctgctattac cctcaacaga catgtttctg cccaagaag atctctccc ccctgcatt tgtcagactc ccattggctt tttttgaca cattgtccta ggctgctgta gtatgctgtg gatgaattag gcatcagagg ttaagggtcc ctttcttct	tgaaaggtgt gactctaaa tactgatta attaagtaca gatatagggg tggaatttg gcaagcattg gacgtaggga aatggcctgt actggtgcta atgacagtta atgacagtta catgtcagc gactggtcag catgttctg gtggcatggt atctctccc ccatggccat atgtggtg tggaataa tctgataaa cctgtaccat aaactggagg ataaatgata tcttattgtg cccttgacag acatcacact accagtact tgtaacaaa atgtctgtga catcgtgctg tctgttgc catagctcca ctgtttgcaa taataaaaa tttcggaggg gcctgtgaca agtattttac ctggaagaat ctgaaataag agaaaagac tttaaatatg agccattta agctcctcaa gcacagctcg ctctgtgtcc tgatatatca ctttcttct	Homo sapiens

340	5133	Peropsin	NP_006574.1	cctattatg gcatgatta cactgtactg atgaccttta acttgccctg ctcc	Homo sapiens
341	5519	Brain-Specific Angiogenesis Inhibitor 1	NM_001702	<p> ggactttaga agccgttgct gccctctctg tcacctgaag cggggccctc tccatccca A cccttgccc gccctccctg ccccaaccgg ccgcccctgc ccgcccggg accctggcat gtcaagaacct ggtccgcgcg tgcctgccc gcccgcgga ccccgcggc cccgcgagct aggatgagg gcaaggccgc cgcgcgcgg cgcgcgcgg ggcgcgcgg gacgacacgc ggggcccggg ctgctgctgc tctgtggagc cgcgcgcgg ggtgcaggga agttctctg gctacttctc cgcgcgcggc ccgagccgt gcgcacgct ggtgcaggga agttctctg tggacgtac gcaaccgga cccgcggcgc gtgtcccg ccaagcctc gcgctgctc gccaaaggc ccgtgccct gaagcggcc cggcccgctg tacactctc acatgaagt ggcctcgag tccacgca cctacctgg cgtggagagc cgacactacc agttcgactc ctctctcgag tccacgca cctacctgg cgtggagagc ttcgacgagg tctgctggct ctgcgaccc tccgacccc tggccttctc gcaggccagc aagcagttcc tgcagatgc gcgccagcag ccgcccagc acgacgggt cccgcccggg gcggggccgc cgggcccac cgacgactc tccgtggagt acctggtgt ggggaaccgc aaccacagc gtgcgcctg ccagatgctg tgcgctggc tggacgctg tctggcgggt agtcgagct cgcacccctg cgggatcatg cagacccct gcgctgctt gggcggcgag gcggcgccgc ctgcgcggg accctggcc ccccgcggg atgtctgct gagagatgcg gtgctggtg gccctgaata ctgcctacc agcctgacc aggacgggg agggcacggc gccacaggc gctggaagt gtggtccctg tgggcggaat gacgcggga ctgcggggga ggcctccaga cgcggacgc cactgctg cccgcgcgg gctggaggg cggcggctgc gagggggtgc tggaggagg tgcagatgc aacgcgagg cctgcggcc cgtggggcgc accagctccc ggagccagtc cctgcggtcc acagatgcc ggcggcgca ggagctgggg gacgagctgc agcagtttg gtcccagcc cccagaccc gtgacccag agccgaggag tggtccctgt ggagcgtgtg ctccagcacc tgcggcgagg gctggcagac ccgacggcg ttctgctgt cctcctcta cagacgcag tgcagcgga cctgcgca gacgggctg tgaacaact ctgctgtg cccagtgc atgagtggt atgagtggt gccctggagc ctctgctcca gcacctgtg cctggtctt cgggatcgca cgcgcacct caggccccc cagtttggg gcaacccctg tgaggccct gagaagcaa ccaagttct caacattgcc ctgtgccctg gccgggcagt ggatggaaac tggatgagt ggtcgagct gagcgctgc tccgccaact gctcccagg ccgacagcag cgcgcgtg aatgaaac gccttctac gggggtgcgg agtgccagg ccactgggtg gacccccg actgcttct gcagcgtgc ccagtggat gcaagtggca ggcctgggc tcatgggga gttgcagct cactgtggg gctggcagc agcgacggga gcgtgtctg cctggggcct tcttcgggg agcagcctgc caggccccc aggatgagta ccggcagtc ggacccagc ggtgtccca gccccatgag atctgtgat aggacaact tgggtgctgt atctggaag agacccagc gggagagggtg </p>	Homo sapiens

gctgctgtcc ggtgtccccc caacgccaca ggactcatcc tgcgacgggtg tgagctggac
gaggaaggca tgcctactg ggagccccc acctacatcc gctgtgttc cattgactac
agaaacatcc agatgatgac ccgggagcac ctggccaagg ctacgacgag gctgcctggg
gaggggggtct cggaggtcat ccagacactg gtggagatct ctacgacgag gaccagctac
agtggggacc tctgtccac catcgatgac ctgaggaaca tgacagagat ttcccgaga
gcgtactaca gcccacccc tggggacgta cagaactttg tccagatcct tagcaacctg
ttggcagagg agaactcggga caagtgggag gaggtccagc tggcggggccc caacgccaa
gagctgttcc ggctgggtgga ggactttgtg gactccgcat gctccgcat gaaggacctg
agggatgcat accaggtgac agacaacctg gtctcagca tccataagct ccagccagc
ggagccactg acatcagctt ccccatgaag ggctggcggg ccacgggtga ctggggccaa
gtgccagagg acagggtcac tgtgtccaag agtgtcttct ccacggggct gacagagcc
gatgaagcat cgtgtttgt ggtgggacac gtgtctaca ggaacctggg cagcttctg
gacctgcaga ggaacacgac cgtcctgaat tctaaggta tctcgtgac tgtgaaccc
ccgctcgtct cctgcgcac acccttgag atcgagttt cccacatgta taatggcacc
accaaccaga cctgtatcct gtgggatgag acggatgtac cctcctctc cgtccccc
cagctcgggc cctggctcgt gcgcggctgc cgcacgggtg cctcgcagc cctcgggag
cgctgcctct gtgacctgct cccacctc gccatcttag cccagctcag cgcgacgag
aacatggaga aggcgactct gccgtcgtg acgtcactg tggcgtgtg cgtgtcctct
ctcacctgc tcatgctggt catcatctac gtgtcgtgt ggaggtacat tgcctcagag
cgttctgtca tctcatcaa cttctgcctg tccatcatct cctccaatgc cctcactctc
atcgggcaga cccagacctg caacaagtg atgtgcacgc tgggtggcgc cttcctgcac
ttcttcttcc tgtcctctt ctgctgggtg ctcccgag cctggcagtc ctacatggcc
gtgacggggc acctccgaa ccgctcact cgaagcgt tctctgctt gggctggggg
ctccctgcac tgggtgtggc catttctgt ggattcaca aggccaaaag gtacagcacc
atgaactact gctggctctc cctggagggg ggactgctct atgcttctgt gggacctgccc
gtgacctgtg tctgggtgaa catggtcatt gggatcctgg tgtcaaca gctcgtgtcc
aaagacggca tcacggacaa gaagctgaag gagcgggag gggcctcct gtggagctcc
tgcggtgtgc tgcgctgct gccgtgacc tggatgtcgg ctgtgctgc cgtcacccgac
cgccgctccg cctcttcca gactctctt cctcgtaga gaggtccagg acgtgtgaa atgcgtgtg
atcgtcatgg tgcactgtat cctcgtaga gaggtccagg acgtgtgaa atgcgtgtg
gttgaccggc aggagggagg caacggggac tcagggggct ccttccagaa cggccacgccc
cagctcatga ccgacttoga gtagacgtg gatctggcct gtagatcagt gctgaacaag
gacatcgcg cctgcgcac tgccacctc acggggcac tgaagcgcc gtctctgccc
gaggaaggaga agctgaagct ggcccatgcc aaggggcgc ccaccaattt caacagctg
ccggccaacg tgtccaagct gcacctgcac ggctcacc cgtatccgg cggccctt
ccgacttcc ccaaccactc actgacctc aagagggaca aggcggccaa gtctctctt
gtcggtgacg gggacatctt caagaagctg gactcggagc tgagccgggc ccaggagaag
gtcttgaca cgagctact gatctgtccc acggccacgg ccacgtgtcg gccaaagccc
aaggaggagc ccaagtacag catccacatt gaccagatgc cgcagaccgc cctcatccac
ctcagcacgg ccccgaggc cagctcccc gcccagac cgcctcccg ccagccccc
agcggcgggc ccccgaggc acctctgccc cagccccac cgcctccgc ccacccgcca

342	5519	Brain-Specific Angiogenesis Inhibitor 1	NP_001693.1	MRGQAAPGP	WTLAPLILL	LLLLRRARA	AAGADAGPG	EPCATLVQK	FFGYFSAAV	P	Homo sapiens
				FPANASRCSW	TLRNPDP	TLYMKVAKAP	VPCSFGPRVR	TYQFDSFLES	TRTYLGVSF		
				DEVLRLCDPS	APLAFLOASK	QFLQMRROQP	PQHDGLRPRA	GPFGPTDDFS	VEYLIVGNRN		
				PSRAACQMLC	RWLDACLAGS	RSSHPCGIMQ	TPCACLGGEA	GGAAGPLAP	RGDVCLRDVAV		
				AGGPENCLTS	LTQDRGGHGA	TGGWKLSLW	GECTRDCGGG	LQTRTRTCLP	APGVEGGGCE		
				GVLEGRQCN	REACGPAGRT	SSRSQSLRST	DARRREELGD	ELQQFGFPAP	QTGDPAAEEW		
				SPWSVCSSTC	GEWQTRTRF	CVSSSYSTQC	SGPLREQLC	NNSAVCPVHG	AWDEWSPWSL		
				CSSTCGRGR	DRTRTCRPPQ	FGGNPCEGPE	KQTRFCNIAL	CPGRAVDGNW	NEWSWSACS		
				ASCSQGRQQR	TRECNGPSYG	GAECQGHWE	TRDCFLQCCP	VDGKWQAWAS	WGSCSVTCGA		
				GSQRREVC	GPFFGGAACQ	GPQDEYRQCG	TQRCPEPHEI	CDEDNFGAVI	WKETPAGEVA		
				AVRCPRNATG	LILRRCELDE	EGIAYWEPPT	YIRCVSIDYR	NIQMTREHL	AKAQRGLPGE		
				GVSEVIQTLV	EISQDGTSYS	GDLLSTIDVL	RNMTIEFRA	YISPTPGDVQ	NFQILSNLL		
				AEENRDKWEE	AQLAGPNAKE	LFLRLVEFVD	VIGFRMKDLR	DAYQVTDNLV	LSIHKLPAASG		
				ATDISFPMKG	WRATGDWAKV	PEDRVTVS	VFSGLTEAD	EASVFVGVTV	LYRNLGSFLA		
				LQNTTVLNS	KVISVTVKPP	FRSLRTPLEI	EFAMNGT	NOTCILWDET	DVPSSAPPQ		
				LGPWSWRGCR	TVPLDALRTR	CLCDRLSTFA	ILQLSADAN	MEKATLPSVT	LIVCGVSSL		
				TLLMLVIYV	SWRYIRSER	SVILINFCLS	IISNALILI	GQTQTRNKVM	CTLVAAPLHF		
				FFLSSFCWL	TEAWQSYMAV	TGHLRNRLIR	KRFCLGWGL	PALVVAISVG	FTKAKGYSTM		
				NYCWLSLEGG	LLYAFVGPAA	AVVLNMVIG	ILVFNKLVS	DGIDTKLKE	RAGASLWSSC		
				VVLPALALTW	MSAVLAVTDR	RSALFQILFA	VDSLEGFVI	VMVHCILRE	VQDAVKCRV		
				DRQEEGNGDS	GGSFQNGHAQ	LMTDFEKD	LACRSVLNKD	IAACRTATIT	GTLKRPSLPE		
				EEKLKLAHAK	GPPTNFNSLP	ANVSKLHLHG	SPRYPGGPLP	DFPNHSLTLK	RDKAPKSSFV		

343	5520	Brain-Specific Angiogenesis Inhibitor 2	NM_001703	<p> GDGDIFFKKLD SELSRAQEKALDTSYVILPTATATLRPKPKKEPKYSIHID QMPQTRLIHL STAPEASLPA RSPSPRQPPSGPPEAPPAQ PPPPPPPPP PPQPLPPPP NLEPAPPSLG DPGEPAHPG PSTGPSTKNE NVATLSVSSL ERRKRYAEL DEKIMHTRK RHQDMFQDLN RKLQHAEEKD KEVLGPDSKP EKQQTPNKRP WESLRKAHGT PTWVKKELEP LQSPPLELRS VEWERSGATI PLVQDIIIDL QTEV </p> <p> gccgcgcggg agagcgggag cctcggccct ccgcgcgggt gcagctacct accctgcgcc A cgccagggt cccgacttag gcatggcaaa cttggccccc gtggccgcc cgcgcagcgc cgcccccg tctgtctgt gacgcgcgcc aggaatcca cagcagtgat acatgtgacg tccacactga cagtgcctc cgtgggcat cgtgggcat gtgcaggtt gtgcaggtt cctggcacac tggctgtaac tccgccccct tctctccctc tcagtaaaag aagattacgc ggtgacatgc ctacagctg atcacgacac acggggatgg agagcaagag ttatggagaa tacaggttgg atgggcaagg gacataggat gacccagcc tgcacctct tactgtctgt gattctgtcc ctgccttg ccaccgctt cgaccccgcc ccagtgctt gctctgacct ggctcggt gtgtctacg gggccttctc gctgcaggac ccttttcta ccatgcctc gggctgtctc tggaccctgg agaaccctga cccaccaaag tactcctct acctgcctt caaccgcag gagcaggtgt ggcacactt tgcccccgcc ctgtgcccc tggaccacta cctggtcaac ttacctgcc tgcggcctag ccccgaggag gcggtggccc agcggagtc agagtgggg cgcccaag aggaggaggc agagcgga cgcgggttg agctgtgcag cggctcaggc cctttacct tctgtcactt cgacaagaac ttctgcagc tgtgctgtc ggtgagccc tccgagggcc cgccctgctt ggcgcgcgtt gcctagctt cccgtttgtt cgaagttctg ctcatcaaca acaacaactc tagccaattc acctgtgtg tgcctgtccc ctaggtgag gagtgtggcc gcgctgcgg cagggcctgc ggcctgtgc agccagctg cagctgcct ggagaggcgg gggcggtc caccacacc acatctccag gccctcctgc tgcacacc ctgtccaatg cctgtgtgc cgggggccc gccccactg ctgaggccga ttgtcactg gggagcagca atgactgtt cacaaccgag atgagatatg gtgaggagcc ggaagaggaa ccgaaagtga aaaccagtg gccaggtct cagagatgac ctgggctata catggcgcag acaggcgacc cggcggtga ggagtgtcc ccgtggagcg tgtgttccct gacgtgtggg cagggtctgc aggtgcggac ccgtcctgt gtgtcctcc cctatgggac cctgtgcagc ggccccctgc gggagaccag gccctgcaac aatcagcca cctgccagt gcacggcgtg tgggaggagt gggggtcctg gagctgtgc tccgcagct gcggcgggg gtcccgagc cggatgcgga cctgcgtgcc cccccagcac ggcggaagg cctgcgagg tctgagctg cagactaagc tctgcagtat ggctgcctgc ccgtgtggaag gccagtgtt agaatgggt cctcggggcc catgtccac gtctgtgcc aatgggacc aacagcgca cgggaagtgc agcgtggcgg gccagcctg ggccacatgc acgggtgcc tcactgacac ccgggagtgc agcaacctg agtgcccgcc cactgatagc aagtgggggc catggaatgc gtgagcctg tgetctaaga cgtgtgacac aggtggcag cgcgccttc gcatgtgcca gccacgggc acgcagggtt accctgcga gggcacagg gaggaggtga agcctgttag tgagaagagg tgtccagcct tccatgagat gtgcaggat gactacgtga tgcctgatgac gtggaagaag gcaagtgtc gcagatcat ctacacaag tgccccca atgcctcagg gtctgcagc cgccgtgtc tctcagtg ccaaggcgtg ggcactgtg ggcagcact cttgtctcgc tgcactctcc atgagtaccg ctacctgtat ctgtcactta ggcagcact gcccaaggg </p>	Homo sapiens
-----	------	---	-----------	--	--------------

caggcagtc tggcaggcga gggcatgtcg cagggtggtgc gcagcctgca ggagctactg
gcccggcgca cctactatag tggggacctg ctcttctctg tggacattct gagaatgtc
actgacacct ttaagaggcg cacctacgtg cctcggctg atgatgtgca gcgttcttc
caggtggtga gcttcagtgt ggtgctcgt aacaaggaga agtggagca tgcacagcag
gtgtccctcg gctctgtgca cctgtccgt gtcgtggagg acttcattca cctggtgggc
gatgtctca aggccttcca gagtctctg atgtcacag ataactagt gatcagcatt
cagcgagagc ccgtctcagc tgtgtccagt gacatcctg tcccatgcy gggccgcgcy
ggcatgaagg actgggtgcy gcactcagag gaccgctct tctgccccaa ggaggtgctc
agcctctcct cccaggga gaaaggtgcc tctgggcca ggcactccc accagcgct cctccagca
agggggccag gaaaggtgcc cctgtggcca cttgtgtac ggtgctgtac tctaccgac ccttggcctc
gacctgatg agtctccta cttgtgtgac cctgtggcc ggtgatgac agtgactgtg
atcctgcgc ctcccaggcc ccgctggcc ctcatcactg tggagctctc ctacatcctc
cgcccccta ccagcctcc agctgagccc ctcatcactg tggagctctc ctacatcctc
aatgggacca cggatcccca ttgcgccagc tgggactact ccagagcaga tggcagctca
ggagactggg acactgaaaa ttgccagacc ctggagaccc aggcagctca caccgctgc
cagtgcagc acctgtccac cttgtgtgta ctgcccagc cgcccaagg cctgaccctg
gagctggcgg gctcccccct gttccccctg gtatcggtg tgcagtgctc gtcatggcg
ctgctcacc tgcctgccat ctatgcccgc ttttggaggt tcataaaatc tgaacgctcc
atcatcttgc tgaactctg cctgtccatc ttggcatcca acatcctgat cctcgtgggc
cagtcgccgg tgcagagcaa gggcgtgtgc acctgaagc ctgcctcct gcacttcttc
ttctctcct cctttgtctg ggtgcttacc gaggcctggc agtctacct ggtgtgctc
ggcgagatgc gacccgcct cgttcgcaag cgcttctct cctgggctg ggtgtgctc
gccctggtgg tggcgtgtc tgttggcttt accgaaagc aaggatacgg tatatccagc
tactgtgc tctccctgga gggcgccctg ctctacgct ttttggccc tgcagccgctc
attgtcctgg tgaacatgct catcggaatc atcgtcttca caaagctcat ggcagtgat
ggcatctccg acaaatccaa gaagcagagg gccgggtcgg agcggtgccc ctggggccagc
ctgctcctcc cctgtcagc gtgtggagc gtccccagc cctgtctcag ctacgctcg
gccaggaaag ccattggcctc actctggagc tctcgttgg tctgccccct gctggcgctc
acctggatgt ctgcccctc ggcctatgaca gaccgcgtt cgtctctt ceaggccctc
tttgcgtgct tcaactccgc gcagggcttt gtcactcactg ctgtgactg ctctcgtgc
cgagaggtcc aggatgtgt gaagtgccag atgggggtgt gccgggctga tgagagcgaa
gactccccct actcgtglaa gaacgggagc ctgcagatcc tgtcagact tgaagaagat
gtgatatctg cttgtcaaac agtgcgttcc aaggaggtca acactgcaa cccgtccacc
atacagggca cactatccc cctgtccccg gatgagatg aggagcccaa gtctgcctc
gtgggccctg agggcagcct cagcttctca ccactgcctg ggaatatcct ggtgccccatg
gcagcctcac cagggctggg gtagctggac cccccacagg aggccaaacc tgtttacatg
tgtggggagg gtggcctgc gacgtggac ctacatggc tgcggccca tggagccaggc
tctgaggagg actacatggt gctgccccg cggacttga gctgcagcc tggcggtggg
ggtggagggt gtgaggatgc cccagggcc cggcccccg ggaagctgccc
aagacagtgg cccacactga aggtacccc agcttctgt ccgtggacca cctgggctg
gggtggggcc ctgcctatgg atctctccag aatccctatg gaatgacctt ccaaccgcca

344	5520	Brain-Specific Angiogenesis Inhibitor 2	NP_001694.1	<p> cgcgcgacac ccagcgcccg ccaagtgcgc gagccaggg agcgagcgc gaccatgcct cgcacccgtgc cgggctctac catgaagatg ggctcccttg agcgaagaa attacggtat tcagacctgg actttgaggt gatgcacacc cggaacggc attcagaact ctaccacgag ctcaaccaga agttccacac ttctgaccgc taccgagcc agtccacggc caagaggagag aagcgtgga gtgtgtctc gggtggggcg gccgagcggg cgtgtgacac cgataagccc agccctggg agcgcgccag cttgtcccaa catcggcgc atcagagctg gagcaccttc aaatctatga cactgggtc gctgcccccc aagccccgac aacgctgac tctgcaccg gcagcagcct gggagccac agaaccacg gatggtgact tccagacaga ggtgtgagtg ccagctgga ctgccactg catataaata tatatatctc tctatttca cactccactt tggaactacc caggagccag cgcctctcc cctctccga ggcctggga gggagggcc gtggactcag ccagctggg ggagccggac atggctggc ctggggtccc agggcccttc ctgtttctc agaggccct cagccactg aacccatctc tcagccagc ctgtccgtcc ctgtcccggg ctggggagg gggaggggaa cttgtgtgg aataaacttc actctgtg MTPACPLLS VILSLRLATA FDPAPSACSA LASGVLYGAF SLQDLFPTIA SGCSTLENP P DPTKYSLYLR FNRQVCAH FAPRLPLDH YLNVFTCLRP SPEEAVAQAE SEVGRPEEEE AAAAAGLELC SGSGFTFLH FDKNFVQLCL SAEPSEAPRL LAPAALAFRF VEVILLNNN SSQFTCGVLC RWSECGRAA GRACGFAQPG CSCPGEAGAG STTTSPPGP AAHTLSNALV PGGPAPPAEA DLHSGSSNDL FTTEMRYGEE PEEEPKVITQ WPSADEPGL YNAQTGDPA EWSWPSVCS LTCGQLQVR TRSCVSSPYG TLCSGLRPT RPNNSATCP VHGWEEWGS WSLCSRSCGR GSRMRMTCV PPQHGKACE GPELQTKLS MAACPVEGQW LEWGPWGPCS TSCANGTQQR SRKCSVAGPA WATCTGALTD TRECSNLECP ATDSKMGPN AWSLCSKTC TGWQRFRMC QATGTQGYPC EGTGEVPC SEKRCFAHE MCRDEYVMLM TWKKAAGEI IYNKCPNAS GSASRRCLLS AQGVAYWGLP SFARCISHEY RYLYSLREH LAKQRMLAG EGMSQVVRSL QELLARTYY SGDLLFSVDI LRNVTDTEKR ATYVPSADDV QRFQVVSFM VDAENKEKWD DAQVSPGSV HLLRVDEFI HLVDALKAF QSSLIVTDNL VISIQREPVS AVSSDITFPM RRRGMKDWV RHSEDRLELP KEVLSLSPG KPATSGAAGS PGRGRPGTV PPGPGHSHQR LLPADPDESS YFVIGAVLYR TLGLILPPP PPLAVTSRVM TTVTRPPTQP PAEPLITVEL SYINGTTDP HCASWDYSRA DASSGDWDE NCOTLETQAA HTRCQCQHL TFAVLAQPPK DLTLELAGSP SVPLVIGCAV SMALLTLIA IYAAFWRFIK SERSIILNF CLSILASNIL ILVGQSRVLS KGVCTMTAAF LHFFFLSSFC WVLTEAWQSY LAVIGMRTR LVRKFLCLG WGLPALVAV SVGFTRTKGY GTSSYCWLSL EGGLLYAFVG PAAVIVLVM LIGIIVFNKL MARDGISDKS KKQAGSERC PWASILLPCS ACGAVPSPLL SSASARNAMA SLWSSCWLP LLALTWMSAV LAMTDRSVL FQALFAVNS AQGFVITAVH CFLRREVQDV VKQMGVCRA DESEDSVCS KNGQLQLSD FEKDVLDLACQ TVLFKEVNTC NPSTITGTL RLSDEDEEP KSCLVGPES LSFSPLPGNI LVPMAASPLG GEPPPPQEAN PVMCGEGL RQLDLTWLRP TEPGSEGDYM VLPRRTLSLQ PGGGGGGED APRARPEGTP RRAAKTVAHT EGYPSFLSVD HSLGLGPAY GSLQNPYGMT FQPPPTPSA RQVPEPERS RTMPRTVPGS TMKMSLERK KLRYSDLDFE VMHTRKRAHE LYHELNQKHF TFDYRSQST AKREKRSVS SGAAERSVC TDKPSPGERP SLSQHRRHQ SWSFKSMTLG SLPPKPRERL TLHRAAWEP TEPPDGDFQT EV </p>	Homo sapiens
-----	------	---	-------------	--	--------------

345	5521	Brain-Specific Angiogenesis Inhibitor 3	NM_001704	Homo sapiens	
				A	
					ggataacaac ttacagaggg caaatgacat aggatgaagg ctgttcgtaa cctgctgatt tatatatatt ccacctatct cctggttatg ttggatttta atgctgcca agacttctgg tgttcaactt tggtagagg agtcatattt ggatcgatt ctgtaagtga aatgtttcct aaaaacttta caaactgcac ttggacgctg gaaaatccag atccaacaa atatagcatt tacctgaatt ttccaaaaa ggaccttagc tgctctaact ttctactcct ggcctatcag ttgatcatt ttcccaatga aaaaataaag gatcttttaa gaaagaatca ttctataatg caactctgca attccaagaa tgctttcgtt ttctacagt atgataaaaa ttattattca atacgtcgag tatttccaac taatttccca ggattacaga aaaaaggga agaagatcag aaatcttttt ttgagttttt ggtattgaac aagtcagcc caagccagtt tggttgccat gtattatgta cttggttggg gagctgctta aatcagaaa atgggagaac agaatcattg gggatcatgt atacaaaatg cactgacct cagcatttgg gagagtgggg gatcgacgac cagtcgctga ttttgttaaa taactgtgtg ttaccttga atgagcagac agagggtctg ctgacccagg agctgcaaac caccgaagtc tgcaatctta ccaggaggc caagcgacca cccaaagaag aatttgaat gatggagat catacaatta aaagtcagcg aactcgatct gttcatgaaa aaagggtccc tcaggaaaca gctgatgctg cttaatttat ggcacaaact ggtgaatctg tgttggaaga gtggtcccag tggagccat gttcgggttac ttgtggtcaa ggtgcagagg tgcgaaccag aacttgtgta tcaccttacg ggacacactg cagcgcccc ttaagagaat caagggtttg caataacact gccctctgtc cagtacacgg agtatgggag gaatggtcac catggagttt atgttcattt acgttgggtc gaggccaaag aacaagaaca aggtcatgca cactctctca gtatggagga aggcctgtgt aggacctga aacacatcat aagccttgta atattgctct ttgcccagtt gatggacagt ggcaagagtg gagttcgtgg agccagtgtc cagtaacgtg ctggaatgg actcagcaga gaagccggca gtgcactgca gctgcccag gaggctccga atgcagaggg ccattgggag aaagcagaga gtgctataac cctgaatgta cagccaatgg tcaatggaat cagtggggtc atggagtggt ttgttccaa tcctgtgatg gggctgga aaggcgaata agacctgtc aggtgagcgt gataacaggg cagcaatgtg aaggaaacgg cgaagaagtg agaagatgca gtgagcagcg atgcccgtga ccttatgaaa tatgcccctga ggattatctg atgtcgatgg tgtggaaaaa aactccagca ggcgacttgg cattcaatca atgtcccctg aatgcccag gcaccactag cagacgctgc tctctcagtc ttcatggagt ggccttcttg gaaagccga gctttgcaag atgcatatca aatgagtaca gacacttga gcatccaatt aaagagcacc ttgctaagg gacgcaatg ctggcagggt atggaatgtc ccaggtgacc aagacactgt tggatttaac tcagagaaaa aatttctatg caggcgatct tctgatgtct gtggagatcc tgagaaatgt gacagacaca tttaaaaggg caagttacat cctgcatct gatgtgtcc agaacttctt tcaaatagtt agcaaccttc tagatgaaga aaacaaggaa aatggggaag atgcacaca gatttatcca ggttcaatag agttaatgca ggtgatgaa gattttatc acattgttgg aatggggtatg atggactttc agaattcata cttaatgact ggaatgtag tggctagat tcagaagctt ctgacgacct ctgttctaac agacatcaac ttccaatga aaggcggaa ggaatgggtt gactgggcaa gaaactcaga agatagggtg gtatttccaa aaagcatttt cactcgggtg tcataaaaaa aattatgta atcatctgta ttgttcttg gcgagtcct atacaaaaac ttagatctaa ttttgcccac tttagaaaat tatactgtca ttaattccaa aatcatcgtg gtcaacaataa ggcctgaacc caaaacaacc gattcgtttc tggagataga actagctcat

ttggctaag gtactttgaa tcoctattgt gtattgtggg atgactccaa aacgaacgag
tctttgggaa cgtggtccac ccagggatgt aaaactggc ttaccgatgc atcccatag
aaatgcttat gtgatgctct ctctacctc gccatttbgg ctacgaacc tagagaaata
atcatggaat cctctggcac accctcagtt accctaatag taggcagtggt tctttcttgc
ttggccttga ttaccctagc agttgtctat gcagcattat ggaggtacat acgctctgag
agatccataa tactaattaa ctctgcctg tctatcatct catccaatat cctcactag
gttggacaga ctacagacaa taataagagt atctgcacaa ccaccactgc attttgcac
tttttcttcc tggcttcatt ctgttgggtt ttgactcagg cgtggcaatc atatatggct
gtaactggaa aaattaggac acggcttata agaaaagct ttttgcct tggatgggt
ttaccagcat tagtagtggc cacatcagta ggcttcacca gaacaaaagg atatggcact
gatacactact gctggctctc tcttgaagga ggactactct atgcttttgt gggacctgca
gccgctgttg tccgtgtcaa catggtgatt ggcattttgg tatttaataa acttgtttcc
agagatggaa tccatagataa aaagctcaaa cacagagccg gtcagatgag tgagcctcat
agcgggtttga cgctcaaatg tgccaaagtgt ggagtagttt caacaacagc tttgtcagcc
accaccgcc a gtaacgccat ggcgtctctt tggagctcct gtgtggtgtt gcccttctg
gctttgacgt ggatgtctgc ggttctggcc atgacagata aacgtcccat attgtttcaa
atactttttg ctgtgttga ttcattgcaa ggcctttgta tagtcatggt ccactgcatt
cttcggagag aggttcagga tgcatttga tgcgattga gaaactgtca ggaatccatc
aatgcagatt ctctcagttc gtttccctaat ggcgatgctc aaatcatgac agactttgaa
aaggatgtag acattgcctg tcatcagtt ctctcctaat ggcataagg atattggtc ttgccgagca
gccacataa caggaacact ttctaggatt tctcctaatg atgatgaaga agaaaaggga
acaaacccctg aagggttaag ctattcaaca ttgcctggaa atgtcatttc caaagtcatc
atccagcaac ccacaggttt gcacatgcc atgagtatga atgagcttag caatccatgt
ttgaaaaaag aaaaatagta attgcggaga actgtgtact tatgtacgga tgataattg
agaggggctg acatggacat agtccatcct caagaaagaa tgaaggaaa tgactatat
gtgatgccca gaagtctgt aaataaccag ccttcaatga aagaagaaa caaatgaat
attggcatgg aaaccttgc acatgaaagg ctattgcact acaaaagtaa cctgaattc
aatatgaatc cccctgtaat ggaccagttc aatatgaact tagagcaaca tctcgaccc
caggaacata tgcagaattt gccctttgaa cctgcacag ctgtgaagaa ttcatggcc
tctgagttgg atgataatgc aggactatca agaagtgaag ctggatcaac gatatcaatg
agttctttag agagaagaaa atcacgatat tcagaccttg actttgagaa ggtcatgcat
acaaaggaaga ggcatalgga actatttcaa gaactaaatc agaaatttca aactttggac
agatttcggg atataccaaa tacaagcagt atggaaaacc cgcacccaaa caagaatcca
tgggacactt tcaaaaacc cagtgaatac cgcattaca ccacaatcaa tgtcttagac
acagaggcaa aggatgcttt ggaactgagg ccagcagagt gggagaagt tctgaattg
cctctggatg tgcaagaggg tgactttcaa acagaagttt aaaaaatca aaatggacta
aggtagagac aaaactttat tgcactgaca cttagactt gggaagcctg acatttctat
ctggacagtg tgactatctt atgtcaggac ctctcatgtc caaacgtcag tgggttttc
atatggtaac ttctcactag tcaggctagt ggagataga ccaggtgtac agtctgacc
atcctgtgtt gtaagtacc gtggaatgga tttgttaagg atctttata gataaacctc
aagcaacgat tcatgttga accgcttcat atgtgttagt tttcaaaaaa cttcaccatg

Homo
sapiens

P

NP_001695.1

Brain-
Specific
Angiogenesis
Inhibitor 3

346 5521

aagcacaaatg tatatatatta tgcagttttt aaagtttata acagttctgtt tggccattac
tacaattttt actttataat ataaagcaa agtttttgtc attaatgaa tgtttgtga
gtacattctt tcattgcttt aaatgcaata agtaataat ctcactttta tatgaataat
atatttcaca tctttattat tgcagttttt tctagaagc tctgagaagc tttctctgtc
gcagctggtg ataaatatt taaaatgttg tatggtgtaa ataaactttt gttctacat
MKAVRNLLIY IFSTVLLVMF GFNAAQDFWC STLVKGVYIG SYSVSEMFPP NFNCTWTLE
NPDP TKYSIY LKFSKKDLSC SNFSLLAYQF DHFSHEKTKD LLRNHSIMQ LCNKNAFVF
LOYDKNFIQI RRVFTNFPQ LQKGEEDQK SFEEFLVNLK VSPQFGCHV LCTWLESCLK
SENGRTESCG IMYTKCTCPQ HLGEWGIDDQ SLILLNNVL PLNEQTEGCL TQELQTTQVC
NLTREKRPP KEEFGMGDGH TTKSQRPVS HEKRVPOQA DAAKFAQTG ESGVEEWSQW
STCSVTCGQG SQVTRTCVS PYGTHCSGPL RESRVCNNTA LCPVHGWEW WSPWSLCST
CGRGQRTTR SCTPQYGGP PCEGPETHK PCNIALCPVD GQWQEWSSWS QCSVTCSTNGT
QORSROCTAA AHGSECRGP WAESRECYNP ECTANGQWQ WGHWSGCSKS CDGGWERRIR
TCQGAUITGQ QCEGTGEEVR RCSEQRCPAP YEICPEDYLM SMWKRTAG DLAFNQCPLN
ATGTTSTRCS LSLHGVAWE QPSFARCISN EYRHLQHSIK EHLAKQRM L AGDMSQVTK
TLDLTORKN FYAGDILMSV EILRNVTDTF KRASYIPASD GVQNFQIVS NLLDEENKEK
WEDAQIYPG SIELMQVIED FIHIVGMGM DFQNSYLTG NVASIQKLP AASVLTDINF
PMKGRKMVD WARNEEDRV IPKSIFTPVS SKELDESSVF VLGAVLYKNL DLILPTLRNY
TVINSKIIV TIRPEKTTD SFLEIELAHL ANGELNPNYC LWDDSKTNS LGTWSTQGCK
TVLTDASHTK CLCDRLSTFA ILAQQPREII MESSGTFSVT LIVSGLSCL ALITLAVYA
ALWRYIRSER SIILINFCLS IISNNILIV GQTQTHNKS I CTTTTFALHF FFLASFQWVL
TEAWQSYNAV TGKIRTRLIR KRFLCLGWGL PALVATSVG FTRTKGYGTD HVCWLSLEG
LLYAFVGPAA AVVLNMVIG ILVFNKLVS R DGLDKKLKH RAGMSEPHS GLTLKCAKCG
VSTTALSAT TASNAMASLW SSCVVLPLLA LTWMSAVLAM TDKRSILFQI LEAFVDSLQ
FVIMVHCIL RREVQDAFRC RLNCQDPIN ADSSSPFNG HAQIMTDFEK DVDIACRSVL
HKDIGPCRAA TITGTLRSIS LNDDEEEKGT NPEGLSYSTL PGNVSKVII QOPTGLHMPM
SMNELSNPCL KENSELRRT VYLCTDDNLR GADMDIVHPQ ERMESDYIV MPRSSVNNQP
SMKEESKNI GMETLPHERL LHYKVNPEFN MNPPVMDQFN MNLEQLAPQ EHMQLPFEP
RTAVKNFNAS ELDDNAGLSR SETGSTISMS SLERRKSRY S DLDEFKVMHT RKRHMELFQE
LNQKFQTLDR FRDIPNTSSM ENPAPNKNPW DTFKNPSEYP HYTTINVLDT EAKDALELRP
AEWEKCLNLP LDVQEGDFQT EV

347

6031

SIV/HIV
Receptor
BONZO

NM_006564

A

Homo
sapiens

gcagaccttg cttcatgagc aagctcatct ctggaaacaa ctggcaaacg atctctgctg
gtgttcacga gaacagacac catggcagag catgattacc atgaagacta tgggttcagc
agtttcaatg acagacgcca ggaggagcat caagacttcc tgcagttcag caaggtcttt
ctgacctgca tgtacctggt ggtgtttgtc tgtgttctgg tggggaactc tctggtgctg
gtcatatcca tcttctacca taagtgcag agcctgacgg atgtgttctt ggtgaaccta
ccccctggctg acctgggtgt tgtctgact ctgcccttct gggcctatgc aggcatecat
gaatgggtgt ttggccaggt catgtgcaag agcctactgg gcatctacac tattaacttc
tacacgtcca tgtcatcct cactgtgac actgtgac actgtgac actgtgac actgtgac
gccaccaagg cctacaacca gcaagccaag aggatgacct ggggcaaggt caccagctg
ctcatctggg tgatatccct gctggtttcc ttgccccaaa ttatctatg caatgtctt

348	6031	SIV/HIV Receptor BONZO	NP_006555.1	<p>aatctcgaca agctcatatg tggttaccat gacgaggcaa tttccactgt ggttcttgcc accagatga cactggggtt cttcttgcca ctgctacca tgattgtctg ctattcagtc ataatcaaaa cactgcttca tgtggaggc ttccagaagc acagatctct aagatcatc ttcttggtga tggctgtgtt cctgctgacc cagatgcctt tcaacctcat gaagtccatc cgcagcacac actgggaata ctatgccatg accagcttct actacacat catggtgaca gagggccatg catacctgag ggcctgcctt aaccctgtgc tctatgcctt tgcagcctg aagtttcgaa agaactctg gaaactgtg aaggacattg gttgcctccc ttaccttggtg gtctcacatc aatggaatc ttctgaggac aattccaaga cttttctgc ctcacacaat gtggaggcca ccagcatgtt ccagttatag gctttgccag ggtttcgaga agctgctctg gaatttgcaa gtcattgctg tgcctctctg atgtggtgag gcaggctttg ttatagctt gcgcatctc atggagaagt tatcagacac tctggctggt ttggaatgct tcttctcagg catgaacatg tactgtctc ttctgaaca ctcatgctga aagccaagt aggggtctca aaatttttaa ggacttctc tctccatct ccaagaatgc tgaaccaag ggggatgaca tgtgactcct atgatctcag gttctcctg attggactg gggctgaagg ttgaagaggt gagcacggcc aacaaagctg ttgatggtg gtggcacact ggggtcccaa gtcagaaggg ctctctgac tactgggcaa agagtgtaga tcagagcagc agtgaataca agtgcctggca ccaccaggca cctcacagaa atgagatcag gctctgcctc acctggggc ttgactttg tataggtaga tgttcagatt gcttgatta atccagaata actagacca gggactatga atgggcaaaa ctgaattata agaggtgat aattccagtg gtccatggaa tgcctgaaa atgtgcaaaa cagcgcttaa gactgtaatg aattcaaga gcattctga agtggactct ttggtggctt tgcattttaa aaatgaaatt ttccaatgc tccacacaa acgtatgtaa atgtatatc ccacacatc acacacatc gtcatatatt actagcatat gagtttcata gctaagaaat aaaactgta aagtctccaa act</p>	Homo sapiens
349	6204	Lysophosphat idic Acid Receptor Edg4	NM_004720	<p>KLQSLTDVFL VNLPLADLVE VCTLPEFWAY GIHEWVFQV MCKSLGIYT INFYTMILL TCITVDREIV VKKATKAYNQ QAKRMTWGV TSLLIWISL LVSLPQIYG NVENLDKLIC GYHDEAISTV VLATQTLGF FLPLTMIVC YSVIIKTLH AGGFQKHSRL KIIFLWMAVF LLTQMPFNLM KFIKSTHWEY YAMTSFHYTI MVTEAIALYR ACLNPVLYAF VSLKFRKNFW KLVKDIGCLP YLGVSHQWKS SEDNSKTFSA SHNVEATSMF QL</p>	Homo sapiens

350	6204	Lysophosphat NP_004711.2 idic Acid Receptor Edg4	<p>ctgggtcaaga ctgttgtcat catctctggg gcgttcgtgg tctgtggac accaggccag gtggtactgc tctgtgatgg ttaggctgtg gactcctgca atgtcctggc ttagaaaaa tacttccctac tgttgccga gccaactca ctggtcaatg ctgtgtgta ctcttgccga gatgtgaga tgcgcgcac ctccgcgcg ctctctgtgt gcgctgcct ccgcccagtc accgcgagt ctgtccacta tacatctct gcccaggag gtgccagcac tgcacatcatg cttcccgaga acggccacc actgatggac tccaccttt agctacctt aacttcagcg gtacgcggca agcaacaaat ccacagcccc tgatgacttg tgggtgctcc tggctcaacc caaccaacag gactgactg</p>	Homo sapiens
351	6213	C-C Chemokine Receptor 5	<p>RVIMGQCYN ETIGFFYNNS GKELSSHWRP KDVVVVALGL TVSVLVLLTN LLVIAAIASN P RRFHQPIIYL LGNLAADLF AGVAYLFLEF HTGPRTARLS LEGWFLRQGL LDTSLTASVA TLIAIAVERH RSVMAVOLHS RLPRGRVVML IVGVWVAALG LGLPAHSMH CLCALDRCSR MAPLLRSYL AVWALSSLLV FLIMVAVYTR IFFYVRRVQ RMAEHVSCHP RYRETTLSLV KTVWIIIGAF VWCWTPGQV LLLDGLGES CNVLAVEKYF LLLAEANSLV NAAVYSCRDA EMRRTFRRLL CCACLRQSTR ESHVYTISSAQ GGASTRIMLP ENGHFLMDST L</p>	Homo sapiens

aaaaatgtt gatgaaaaat agaacccctt ttatctcccc ttacatgca tcaagttatt
 gacaaactct cccttcaactc cgaaggttcc ttatgtatat ttaaaagaaa gctcagaga
 attgctgatt cttgagtta gtgactctgaa cagaaaatacc aaaattattt cagaaatgta
 caacttttta cctagtacaa ggcacatat aggttgtaaa tgtgtttaaa acaggctctt
 gtcttgctat gggagaaaa gacatgaata tgattagtaa agaaatgaca cttttcatgt
 gtgattttccc ctccaagta tggtaataa gtttcaactga cttagaacca ggcgagagac
 ttgtggccctg ggagagctgg ggaagcttct taaatagaaa tggcaagct tggctgtaga
 tattgtgctg aaagacagaa gctcactgc aagcactgca tggcaagct tggctgtaga
 aggagacaga gctggttggg aagacatggg gaggaagac aggcctagat catgaagaac
 ctgacggca ttgtccctgc taagtcata gctgagcagg gagatcctgg ttggtgttgc
 agaaggttta ctctgtggcc aaaggagggt caggaaggat gagcatttag ggcaaggaga
 ccaccaacag ccctcaggtc aggttgagga tggcctctgc taagctcaag gctgaggat
 gggaaggagg gaggtattcg taaggatggg aaggagggag gtattcgtgc agcatatgag
 gatgcagagt cagcagaact ggggtggatt tggtttgaa gtgaggtgca gagaggagtc
 agagagaatc cctagtcttc aagcagattg gagaaacct tgaaaagaca tcaagcacag
 aaggaggagg aggaggttta ggtcaagaag aagatgatt ggtgtaaaag gatgggtctg
 gttgcagag cttgaacaca gtctccca gactccagg tgtctttcac tgaatgcttc
 tgacttcata gatttcttc ccattccagc tgaatactg aggggtctcc aggaggagac
 tagatttatg aatacacgag gtatgaggtc taggaacata cttcagctca cacatgagat
 ctaggtgagg attgattacc tagtagtcat ttctggggtt gttgggagga tcttatgagg
 caaccacagg cagcatttag cacatactac acattcaata agcatcaaac tcttagttac
 tcattcaggg atagcactga gcaaagcatt gagcaagggt gtcccatata ggtgagggaa
 gcctgaaaaa ctaagatgct gcctgcccag tgcacacaag tgtaggtatc atttctgca
 tttaacctgc aataggcaaa ggggggaagg gacatattca ttbgaaaata agctgcccgt
 agccttaaaa' ccacaaaaag tacaatttac cagctccgt atttcagact gaatgggggt
 gggggggggc ccttaggtac ttattccaga tgccttctcc agacaaacca gaagcaacag
 aaaaaatcgt ctctccctcc ctttgaatg aatatcccc ttatgttttg ggtatattca
 ttccaagggt agagagagag gttttttctt gttctttctc atatgattgt gcacatactt
 gagactgttt tgaatttggg ggatggctaa aaccatcata gtacaggtta ggtgagggaa
 tagtaagtgg tgagaactac tcagggaatg aaggtgtcag aataataaga ggtgctactg
 actttctcag cctctgaata tgaacgtgta gcatgtggc tgtcagcagg aagcaacgaa
 gggaatgtc ttctcttttg ctcttaagt gtggagagtg caacagtagc ataggacct
 accctctgg ccaagtcaaa gacattctga catcttagta ttgcatatt cttatgtatg
 tgaaggttac aaattgcttg aaagaaaaa tgcactcaat aaaaacacc ttcta
 NP_000570.1 MDYQVSSPIY DINYTSEPC QKINVKQIAA RLPLPLYSIV FIFGVGNML VILINCKR P
 LKSMTDIYLL NLAISDLFFL LTVPFWAHYA AAQWDFGNM COLLGLYFI GFFSGIFFII
 LLTIDRYLAV VHAFALKAR TVTFGVVTSV ITWVAVFAS LPGIIFTRSQ KEGLHYTCSS
 HFPYSQYQFW KNFQTLKIV LGLVPLLM VICYSGLIKT LLRCRNEKKR HRAVRLIFTI
 MIVYLFWAP YNIVLLNFTF QEFFGLNCS SSNRLDQAMQ VTETLGMTHC CINPIYAFV
 GEKERNYLLV FFQKHIAKRF CKCCSIFQQE APERASSVYT RSTGEQEISV GL

Homo
sapiens

353	6363	Chemokine (C-C motif) Receptor- like 2 (CCR12)	NM_003965	<p>tctgtctctg gggaaagtggg cacacgttaa aagaaatgtt tatttcagtc ttctgaaata A</p> <p>gggaattact ctggtataaa ttagcttcca gaaaggaaa gtgggctgt atgaatccag</p> <p>gtccagtttg ttgttctctc caggataaag cagctgtcgg aggggaaaa catctcccat</p> <p>ttctccacag ggcagctctga agatggccaa ttacacgtg gcaccagagg atgaatatga</p> <p>tgctctcata gaagtggaac tggagagcga tgaggcagag caatgtgaca agtatgacgc</p> <p>ccaggcactc tcagccagc tgggtccatc actctgctct gctgtgttg tgatcgggtg</p> <p>cctggacaat ctctgtgttg tgotatctt ggtataat aaaggactca aacgcgtgga</p> <p>aaatatctat ctcttaaat tggcagtttc taactttgtt ttctgtctta cctgcccctt</p> <p>ctgggctcat gctggggggc atcccatgtg taaaattctc attggactgt acttcgtggg</p> <p>cctgtacagt gagacatttt tcaattgctt tctgactgtg caaaggtaac tagtgttttt</p> <p>gcacaagggc aactttttct cagccaggag gaggtgtccc tgtggcatca ttacaagtgt</p> <p>cctggcatgg gtaacagcca ttctggccac ttgctctgaa taegtgtgtt ataaacctca</p> <p>gatggaagac cagaaataca agtgtgcatt tagcagaact ccttctctgc cagctgatga</p> <p>gacattctgg aagcattttc tgacttttaa aatgaacatt tgggttcttg tcttccccct</p> <p>attatttttt acattttctt atgtgcaaat gagaaaaaca ctaaggttca gggagcagag</p> <p>gtatagcctt ttcaagcttg tttttgcat aatggtagtc ttcttctga tgtgggcgcc</p> <p>ctacaatatt gcatttttcc tgtccacttt caaagaacac ttctccctga gtgactgcaa</p> <p>gagcagctac aactgggaca aaagtgttca catcactaaa ctcatcgcca ccaccactg</p> <p>ctgcatcaac cctctctctg atgcttttct ttagtggaac ttagcaaat acctctgccg</p> <p>ctgtttccat ctgggttagt acaccccat tcaacccagg ggcagctctg caaaggcac</p> <p>atcgagggaa gaacctgacc attccaccca agtgtaact agcatccacc aaatgcaaga</p> <p>agaataaaca tggattttca tctttctgca ttatttcagt taaattttct acacatttgt</p> <p>atacaaaatc ggatacagga agaaaaggga gagtgagct aacatttgt aagcactgaa</p> <p>tttgtctcag gcacctgca aggtctttta caaogtgag ctctctgcc tctaccact</p> <p>tgctccatagt tgggatagga ctagtctcat ttctctgaga agaaaactaa ggcgcgggaaa</p> <p>tttgtctaaag atcacataac taggaagtgg cagaactgat tctccagccc tggtagcatt</p> <p>tgctcagagc ctacgcttgg tccagaacat caaactccaa accctgggga caaacgacat</p> <p>gaaataaatg tattttaaaa catct</p>	Homo sapiens
354	6363	Chemokine (C-C motif) Receptor- like 2 (CCR12)	NP_003956.1	<p>LILVKYGLK RVENIYLLNL AVSNLCFLIT LPFWAHAGGD PMCKILIGLY FVGLYSETF</p> <p>NCLLTQVQRYL VFLLKGNFFS ARRRVPCGII TSVLAWVTAI LATLPEYVVY KPQMEDQYK</p> <p>CAFSRTPLP ADETFWKHL TLKMNISVLV LPLFTFTFLY VQMRKTLRER EQRYSLFKIV</p> <p>FAIMVVELLM WAPYNIAFFL STFKHEFSLS DCKSSYNLDK SVHITKLIAT THCCINPLLY</p> <p>AFLDGFFSKY LCRCFHLRSN TPLQPRGQSA QGTSREEPDH STEV</p>	Homo sapiens
355	6446	Pael Receptor (GPR37)	NM_005302	<p>atgcgagccc cgggcgcgct tctgcgccgc atgtcgcgcg tactgtctct gctactgctc A</p> <p>aaggtgtctg cctcttctgc cctcgggggt gccctgcgt ccagaaacga aacttgtctg</p> <p>ggggagagct gtgcacctac agtgatccag cgcgcggcca gggacgcctg gggaccggga</p> <p>aattctgcaa gagagcttct gcgagccoga gcaccaggg aggagcaggg ggcagcgttt</p> <p>cttgcgggac cctcctggga cctgcgcggc gccccgggc gtgaccggc tgacggcaga</p> <p>ggggcgagag cgtcggcagc cggaccccc ggactccaa ccaggccacc tggcccttg</p> <p>aggtggaaag gtgctcgggg tcaggagcct tctgaaactt tggggagagg gaacccacg</p>	Homo sapiens

356	6446	Pael Receptor (GPR37)	NP_005293.1	<p>gcctccagc tcttccttca gatctcagag gaggaagaga aggtgccag aggcgtggc atttcgggc gtagecagga gcagagtgtg aagacagtc cggagccag cgtcttttt tactggccaa ggagagccgg gaaactccag ggttccacc aagaccctt gtccaagacg gccaatggac tggcggggca cgaagggtgg acaattgcac tcccggccg ggcgtggcc cagaatggat ccttgggtga agaatccat gagcctgggg gtcccggccg ggaaacagc acgaacccgg gtgtgagact gaagaaccc tttaccgc tgaccagga gtccatgga gcctacggc tcatgtgtc gtccgtgtg atctcggga ccggcatcat tggcaacctg gcgtgatgt gcacgtgtg ccacaactac tacatggga gcattccaa ctccctctt gccaacctgg ccttctggga ctttctcacc atcttctct gcctccgct ggtcatctt cacgagctga ccaagaagt gctgctggag gacttctct gcaagatcgt gccctatata gaggtcgtt ccttgggagt caccacctt acccttatgt cctgtgcat agaccgttc cgtgctgcca ccaactgaca gatgtactac gaaatgatg aaaactgtt ctcaacaact gccaaacttg ctgttatatg ggtgggagt ctattgttag cattccaga agttgttct cgccagctga gcaaggagga ttgggggtt agtggccgag ctccggcaga aagtgcat attaagatct cctctgatt accagacacc atctatgtt tagccctcac ctacgacagt gcgagactgt ggtggtatt tggctgttac tttgtttgc ccagctttt caccatcacc tgctctctag tgactgcgag gaaatccgc aagcctgtac agcctgtac ccgaggaat aaacggcaga ttcaactaga gactcagatg aactgtacg tagtggcact gacctttta tatggattt gcattattcc tgaaaatate tgcaacattg ttactgcta catggctaca ggggtttcac agcagacaat ggacctcctt aatatcatca gccagttcct tttgttctt aagtcctgtg tcaacctagt cctcctttc tgtctctgca aaccttcag tcgggccttc atggagtgt gctgctgtg ctgtgaggaa tgcattcaga agtcttcaac ggtgaccagt gatgacaatg acaacgagta caccacggaa ctgcaactct cgcctttcag taccatacgc cgtgaaatgt ccacttttc tctgtcga actcattgct ga</p>	Homo sapiens
357	6536	Putative Neurotransmi tter Receptor (PNR)	NM_003967	<p>atgagagctg tcttcacca aggtgctgaa gageaccctg cggcattctg ctaccagtg A aatgggtctt gcccaggac agtatactat ctgggcatcc agttggctcat ctacctgacc tgtgcagcag gcgtctgat tatcgtcta gggaaatgtat ttgtggcatt tgcgtgtcc tacttcaag cgcttcacac gccaccaac tctctgtgc tctccctggc cctggtgac atgtttcttg gctgtgtgt gctgcccctc ageaccattc gctcagtgga gagtgcctg ttcttcgggg acttctcttg ccgctcgcac acctaccttg acacctctt ctgcctcacc</p>	Homo sapiens

358	6536	Putative Neurotransmitter Receptor (PNR)	NP_003958.1	<p> tccatcttcc atctctgttt catttccatt gaccgceact gtgcccactg tgacccccctg ctctatccct ccaagttcac agtgagggtg gctctcaggt acatctctggc aggatggggg gtgcccgcag catacacttc gttattcttc tacacagatg tggtagagac aaggctcagc cagtggctgg aagagatgcc ttgtgtgggc agttgceagc tgctgctcaa taaattttgg ggctgggttaa acttcccttt gttctttgct cctgctcca ttatgatcag cttgtatgtg aagatctttg tgggtgctac cagacaggct cagcagatta ccacattgag caaaagcctg gctggggctg ccaagcatga gagaaaagct gccaagaccc tgggcatigt tgtgggcata tacctcttgt gctggctgcc cttcaccata gacagatgg tgcacagcct ccttcacttt atcacacccc cactgggtct ttacatcttt atctggtttg cttacttcaa ctcagcctgc aaccocatca tctatgtctt ttctaccag tggtttcgga aggcactgaa actcacactg agccagaagg tctctcacc gacagacgc actgttgatt tgtaccaaga atga MRAVFIOGAE EHPAFCYQV NGSCPRTVHT LGIQLVLYLT CAAGMLIIVL GNVFAFAVS P YFKALHTPTN FLLLSLALAD MELGLLVLP STIRSVESCW FFGDFLCRLH TYLDTLFLCLT SIFHLCFISI DRHCAICDPL LYPKFTVRV ALRYILAGWG VPAAYTSLFL YTDVETRLS QWLEEMPCVG SCQLLNKFW GWLNFPPLFFV PCLIMISLYV KIFVVATRQA QQITTLKSLS AGAAKHERKA AKTLGIWGI YLLCWLPTI DTMVDSLHFF ITPPLVFDIF IWFAYFNSAC NPIIYFSYQ WFRKALKLTL SQKVFSPQTR TVDLYQE </p>	Homo sapiens
359	6777	G Protein- Coupled Receptor TM7SF1	NM_003272	<p> cggcgcgatg cgcggagacc ccgcggggg cggcgggggc cgtgagcccc gatgaggccc A gagcgtcccc ggcgcgcgg cagcgcctcc ggcgcgatgg agacccgcc gtgggaccca gcccgcgaacg actcgtctgc gccacgcctg acccgcctg tgcctcccta cgtgaagctt ggcctcaccg tcgtctacac cgtgttctac gcgtgctct cgtgttctac ctacgtgcag ctctggctgg tctgctgta ccgccacaag cggctcagct accagagcgt cttcctcttt ctctgctct tctggcctc cctgcggacc gtcctctct cctctactt caaagacttc gtggcgcca attcgtctcag cccctctgtc tctggtgtgc tctactgctt cctgtgtgc ctgcagtttt tcacctcac gctgatgaac ttgtacttca cgcaggtgat ttccaagcc aagtcacaaat attctocaga attactcaaa taccggttg cctctacct ggcctccctc ttcatcagcc ttgttttctt gttggtgaat ttaacctgtg ctgtgctggt aaagacggga aattgggaga ggaagttat cgtctctgtg cgagtggcca ttaatgacac gctctctgtg ctgtgtgccg tctctcttc catctgtctc taaaaatct ctaagatgtc cttagccaac atttacttgg agtccaaagg ctcctcctg tgtcaagtga ctgcatcgg tgtcacctg atactgcttt acactctcg ggcctgctac aacctgttca tctgtcatt ttctcagaac aagagcgtcc attccttga ttatgactgg tacaatgtat cagaccaggc agatttgaag aatcagctgg gagatgctgg atactatta ttggagtggt tgtatttgt ttgggaactc ttacctacca ccttagtgtt ttattcttc cgagttagaa atctacaaa ggaccttacc aacctggaa tggctcccg ccatggattc agtccagat cttatttctt tgacaacct cgaagatatg acagtatga tgaccttgc ttggaacattg ccttcaggg acttcaggga ggttttgctc cagattacta tgattgggga caacaacta acagcttctt ggcacaagca ggaactttgc aagactcaac ttggatcct gacaaaccaa gccttgggta gcatcagtta acagttttat ggacgatcc tcagatgaa agcttcagaa aagcatagt acagctgaat ttttagggca ctttctcta agaatagaa cttgattttt attgtttaca ggtttccaat ggcccatag gaataagcaa taatgtagac tgataaaccc ttattttagt actaaagagg </p>	Homo sapiens

360	6777	G Protein- Coupled Receptor TM7SF1	NP_003263.1	MRPERPRRG SAPGPMETPP YVQLWLRLRY RHKRLSYQSV PVCLOFFTIT LMNLVFTQVI KTGNWERKVI VSVRVAINDT VTVILLYTSR ACYNLFILSF WELLPTTLV YFFRVNPTK LQGGFAPDYY DWGQQTNSFL atggatcgag gtgccaagt agtgggtcc agggggactt gccagcaatg gccctggccct gccgtggtct tctctgtcca ccgctggccg cctacctcta ctggagcgct tctcttccac agcctcaacc gctacctggg acactcagct ggcccggtgag agggccgagc cctgcataca gccgtatagc tgggtctggc gccctacggc ccctcgggcg ctgcgtgtgg cagcgttggg taccacatca tgcgggtgct agctttgcag acatagccca caggtgatgc ggggacctat gcagtgccca gccctggctg ccaagaggac ccaagagcac ccgtcagagc ccagctcccg MDRGAACSCPA NFLAAADKIL AVVFSVQLAV SDLLCALITP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVAG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLSFYF FRAKSKYSPE LLKYRLPLYL LFVLCVAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc acttcttggg cctgtggccc atactgttg gtaccgcttc agcatccgga gctggcagtc agcgacctgc tcccccaag cactggcgct ctgcaacctg ctgggcagcg cctcttctcg ccgaagacca cgcccttctg ccgacctgct cagcaggggg cgggcaactg acagcagacc acgggctggc tgcggcctgc cgtgctgct cgcagccca gcatgactgt gtggccctct acgccagctc gctcggcggc gctggagcac gccctggagc tggggcccta tctctgtgcc accctctact cattgccccg gctacagggg ctgccctcca atgccacagc caatga	VFYALLFVFI P KDFVANSLS PFVFWLLYCF ASLFLSLVFL LVNLTCAVLV LANIYLESKG SSVCOVTAIG DLKNQLGDAG YVLFGWVLFV DNPRRYDSDD DLAWNIAPOG cgactgcccga cgacaaactc ttgagttcct ggtggccgtg agcagcgccc atggcacccc tctgcgctct gacgctgcc atggggaggc cgcgtgccgc tcattcttcat cactgcgac ccgaagacca cctgcgaccc cgcccttctg ggcctatgcc cgggcaactg cagcgtggcc acgggctggc ggcctacaga cgtgctgct cactgtggca gcatgactgt ggcggagaag acgccagct ctatgtgcc gctggagcac ccgctgcccc tggggcccta cgtgggctac acctctact ctacatggcc gctacagggg cagctgggac atgccacagc cgccccctaaa	Homo sapiens
361	6853	Purinergic Receptor P2Y11	NM_002566	atggatcgag gtgccaagt agtgggtcc agggggactt gccagcaatg gccctggccct gccgtggtct tctctgtcca ccgctggccg cctacctcta ctggagcgct tctcttccac agcctcaacc gctacctggg acactcagct ggcccggtgag agggccgagc cctgcataca gccgtatagc tgggtctggc gccctacggc ccctcgggcg ctgcgtgtgg cagcgttggg taccacatca tgcgggtgct agctttgcag acatagccca caggtgatgc ggggacctat gcagtgccca gccctggctg ccaagaggac ccaagagcac ccgtcagagc ccagctcccg MDRGAACSCPA NFLAAADKIL AVVFSVQLAV SDLLCALITP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVAG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLSFYF FRAKSKYSPE LLKYRLPLYL LFVLCVAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc acttcttggg cctgtggccc atactgttg gtaccgcttc agcatccgga gctggcagtc agcgacctgc tcccccaag cactggcgct ctgcaacctg ctgggcagcg cctcttctcg ccgaagacca cgcccttctg cgccctgct cagcaggggg cgggcaactg acagcagacc acgggctggc tgcggcctgc cgtgctgct cgcagccca gcatgactgt gtggccctct acgccagctc gctcggcggc gctggagcac gccctggagc tggggcccta tctctgtgcc accctctact cattgccccg gctacagggg ctgccctcca atgccacagc caatga	cgactgcccga cgacaaactc ttgagttcct ggtggccgtg agcagcgccc atggcacccc tctgcgctct gacgctgcc atggggaggc cgcgtgccgc tcattcttcat cactgcgac ccgaagacca cctgcgaccc cgcccttctg ggcctatgcc cgggcaactg cagcgtggcc acgggctggc ggcctacaga cgtgctgct cactgtggca gcatgactgt ggcggagaag acgccagct ctatgtgcc gctggagcac ccgctgcccc tggggcccta cgtgggctac acctctact ctacatggcc gctacagggg cagctgggac atgccacagc cgccccctaaa	Homo sapiens
362	6853	Purinergic Receptor P2Y11	NP_002557.1	MDRGAACSCPA NFLAAADKIL AVVFSVQLAV SDLLCALITP SLNRYLGIVH PFFARSHLRP RPEACIKCLG TADHGLAAYR LRVAALVAG VALYASSYVP	WDPARNDSLP PTLTPAVPPY FLFLCLFWAS LRTVLSFYF FRAKSKYSPE LLKYRLPLYL LFVLCVAVSL ICLYKISKMS SONKSVHSFD YDMYNVSDQA DLTNPGMVPS HGFSPRSYFF AQAGTLQDST LDPDKPSLG ctgccctgcc acttcttggg cctgtggccc atactgttg gtaccgcttc agcatccgga gctggcagtc agcgacctgc tcccccaag cactggcgct ctgcaacctg ctgggcagcg cctcttctcg ccgaagacca cgcccttctg cgccctgct cagcaggggg cgggcaactg acagcagacc acgggctggc tgcggcctgc cgtgctgct cgcagccca gcatgactgt gtggccctct acgccagctc gctcggcggc gctggagcac gccctggagc tggggcccta tctctgtgcc accctctact cattgccccg gctacagggg ctgccctcca atgccacagc caatga	SIRKQRWHP P LGSVIFTICI QOGAGNCSVA RSPGMTVAEK ALELGPYVGY	Homo sapiens

363	6921	G Protein- Coupled Receptor GPR39	NM_001508	QVMRGLMPLA FCVHPLLYMA AVPSLGCCCR HCPGYRDSWN PEDAKSTGQA LPLNATAAPK PSEPQSRELS Q atggcttcac ccagctctcc gggcagtgac tgctcccaaa tcattgatca cagtcagtgc A cccaggtttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttctgtatgg gcttttggg gaacagcgc accattggg tcaccagggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctgggacatc ttggtgttcc tcctggcgtat gcccatggag ttctacagca tctctggaa tccctgacc acgtccagct acacctgtc ctgcaagctg cacactttcc tcttcgaggg ctgcagctac gtacagctgc tgcagctgct gacactcagc tttagagcgtt acatgcccac ctgtcacccc ttcagggtaca aggtgtgtgc gggaccttgc caggtgaagc tgctgattgg ctctgctcgg gtcacctcgg ccttggtggc actgcccctg ctgttttgcca tgggtactga gtaccccctg gtgaacgtgc ccagccaccg ggtctcact tgcaacgcgt ccagcacccg ccaccacag cagcccgaga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc cagtcacgga tcttcggcgc cttctgtgtc tacctgtgtg tctgtctctc cgtagccttc atgtgtgga acatgatgca ggtgctcatg aaagccaga agggctcgtt gcccgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tcttgaggct gattgtgtg acattggccg tatgtcgtat gcccaaccag attcggagga tcatggctgc ggccaaacc aagcagact ggaagaggtc ctacttccgg gcgtacatga tctctctccc cttctcggag acgttttctt acctcagctc ggtcatcaac cgcctcctgt acacggtgtc ctgcagcag ttctcggcgg tgttcgtgca ggtcgtgtgc tgccgctgt cgtgcagca cgccaaacc tgcagagccc tgcgcgtaca tgcgcactcc accacagaca ggcggcgtt tgtcagcgc cgttgcctct tgcgctccc gcgccaagtc tctgaagga gaactgagaa gattttctta agcactttc agagcagggc cgagcccag tctaagtcac agtcattgag tctcagagca cttagagcca actcagggc gaaaccagcc aattctgctg cagagaatgg ttttcaggag catgaagttt ga MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLIIIVLII FMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGNPME FYSIWNPLT TSSYTLSCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPPOLRKSE SEESRTARRQ TIIFLRLLIV TLAVCMWPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFSE TFFYLSSVIN PLLYTVSSQ FRRVFVQLC CRLSLQHANH EKRLRVHAHS TTDSAREVQR PLLFASRRQS SARTEKIFL STFQSEAEFPQ SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccgggagct tcccgtcgc gaagaccag acggctgag gagcccgggc A agcctcggg tcagcggcac catgaacgtc tcgggctgcc caggggccgg gaacggagc caggcggg cggggggag ctagccccc ctagccccc ctagccccc ctagccccc ctcatcttc tctggtgac cgtgggcaac acgtggtgc tggcggtgt gctggcgggc ggccaggcgg tcagcactac caactgttc atcctaac tggcggtggc cgactgtgt ttcatcctgt gctcgtgccc cttccagggc accatata cctggagcgg ctgggtgttc ggctcgtgc tgtgcaagg ggtgacttc ctcatcttc tcaccatga cgcagcagc ttcagcgtg ccgctgtct cctggacag tatctggca tccgctacc cgtgactcc	Homo sapiens
364	6921	G Protein- Coupled Receptor GPR39	NP_001499.1	atggcttcac ccagctctcc gggcagtgac tgctcccaaa tcattgatca cagtcagtgc A cccaggtttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttctgtatgg gcttttggg gaacagcgc accattggg tcaccagggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctgggacatc ttggtgttcc tcctggcgtat gcccatggag ttctacagca tctctggaa tccctgacc acgtccagct acacctgtc ctgcaagctg cacactttcc tcttcgaggg ctgcagctac gtacagctgc tgcagctgct gacactcagc tttagagcgtt acatgcccac ctgtcacccc ttcagggtaca aggtgtgtgc gggaccttgc caggtgaagc tgctgattgg ctctgctcgg gtcacctcgg ccttggtggc actgcccctg ctgttttgcca tgggtactga gtaccccctg gtgaacgtgc ccagccaccg ggtctcact tgcaacgcgt ccagcacccg ccaccacag cagcccgaga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc cagtcacgga tcttcggcgc cttctgtgtc tacctgtgtg tctgtctctc cgtagccttc atgtgtgga acatgatgca ggtgctcatg aaagccaga agggctcgtt gcccgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tcttgaggct gattgtgtg acattggccg tatgtcgtat gcccaaccag attcggagga tcatggctgc ggccaaacc aagcagact ggaagaggtc ctacttccgg gcgtacatga tctctctccc cttctcggag acgttttctt acctcagctc ggtcatcaac cgcctcctgt acacggtgtc ctgcagcag ttctcggcgg tgttcgtgca ggtcgtgtgc tgccgctgt cgtgcagca cgccaaacc tgcagagccc tgcgcgtaca tgcgcactcc accacagaca ggcggcgtt tgtcagcgc cgttgcctct tgcgctccc gcgccaagtc tctgaagga gaactgagaa gattttctta agcactttc agagcagggc cgagcccag tctaagtcac agtcattgag tctcagagca cttagagcca actcagggc gaaaccagcc aattctgctg cagagaatgg ttttcaggag catgaagttt ga MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLIIIVLII FMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGNPME FYSIWNPLT TSSYTLSCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPPOLRKSE SEESRTARRQ TIIFLRLLIV TLAVCMWPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFSE TFFYLSSVIN PLLYTVSSQ FRRVFVQLC CRLSLQHANH EKRLRVHAHS TTDSAREVQR PLLFASRRQS SARTEKIFL STFQSEAEFPQ SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccgggagct tcccgtcgc gaagaccag acggctgag gagcccgggc A agcctcggg tcagcggcac catgaacgtc tcgggctgcc caggggccgg gaacggagc caggcggg cggggggag ctagccccc ctagccccc ctagccccc ctagccccc ctcatcttc tctggtgac cgtgggcaac acgtggtgc tggcggtgt gctggcgggc ggccaggcgg tcagcactac caactgttc atcctaac tggcggtggc cgactgtgt ttcatcctgt gctcgtgccc cttccagggc accatata cctggagcgg ctgggtgttc ggctcgtgc tgtgcaagg ggtgacttc ctcatcttc tcaccatga cgcagcagc ttcagcgtg ccgctgtct cctggacag tatctggca tccgctacc cgtgactcc	Homo sapiens
365	7221	Galanin Receptor GalR2	NM_003857	atggcttcac ccagctctcc gggcagtgac tgctcccaaa tcattgatca cagtcagtgc A cccaggtttg aggtggccac ctggatcaaa atcacccctta ttctggtgta cctgatcatc ttctgtatgg gcttttggg gaacagcgc accattggg tcaccagggt gctgcagaag aaaggatact tgcagaagga ggtgacagac cacatggtga gtttggcttg ctgggacatc ttggtgttcc tcctggcgtat gcccatggag ttctacagca tctctggaa tccctgacc acgtccagct acacctgtc ctgcaagctg cacactttcc tcttcgaggg ctgcagctac gtacagctgc tgcagctgct gacactcagc tttagagcgtt acatgcccac ctgtcacccc ttcagggtaca aggtgtgtgc gggaccttgc caggtgaagc tgctgattgg ctctgctcgg gtcacctcgg ccttggtggc actgcccctg ctgttttgcca tgggtactga gtaccccctg gtgaacgtgc ccagccaccg ggtctcact tgcaacgcgt ccagcacccg ccaccacag cagcccgaga cctccaatat gtccatctgt accaacctct ccagccgctg gaccgtgttc cagtcacgga tcttcggcgc cttctgtgtc tacctgtgtg tctgtctctc cgtagccttc atgtgtgga acatgatgca ggtgctcatg aaagccaga agggctcgtt gcccgggggc acggggcctc cgcagctgag gaagtccgag agcgaagaga gcaggaccgc caggaggcag accatcatct tcttgaggct gattgtgtg acattggccg tatgtcgtat gcccaaccag attcggagga tcatggctgc ggccaaacc aagcagact ggaagaggtc ctacttccgg gcgtacatga tctctctccc cttctcggag acgttttctt acctcagctc ggtcatcaac cgcctcctgt acacggtgtc ctgcagcag ttctcggcgg tgttcgtgca ggtcgtgtgc tgccgctgt cgtgcagca cgccaaacc tgcagagccc tgcgcgtaca tgcgcactcc accacagaca ggcggcgtt tgtcagcgc cgttgcctct tgcgctccc gcgccaagtc tctgaagga gaactgagaa gattttctta agcactttc agagcagggc cgagcccag tctaagtcac agtcattgag tctcagagca cttagagcca actcagggc gaaaccagcc aattctgctg cagagaatgg ttttcaggag catgaagttt ga MASPSLPGSD CSQIIDHSHV PEFEVATWIK ITLIIIVLII FMGLLGNSA TIRVTQVLQK P KGYLQKEVTD HMVSLACSDI LVFLIGNPME FYSIWNPLT TSSYTLSCKL HTFLFEACSY ATLLHVLTL FERYIAICHP FRYKAVSGPC QVKLLIGFVW VTSALVALPL LFAMGTEYPL VNVPSHRGLT CNRSSTRHE QPETSNSIC TNLSSRWTFV QSSIFGAFV YLVVLLSVAF MCWNMMQVLM KSQKSLAGG TRPPOLRKSE SEESRTARRQ TIIFLRLLIV TLAVCMWPNQ IRRIMAAKP KHDWTRSYFR AYMLLPFSE TFFYLSSVIN PLLYTVSSQ FRRVFVQLC CRLSLQHANH EKRLRVHAHS TTDSAREVQR PLLFASRRQS SARTEKIFL STFQSEAEFPQ SKSQSLSLES LEPNSGAKPA NSAAENGFOE HEV ggacaggtgc cccgggagct tcccgtcgc gaagaccag acggctgag gagcccgggc A agcctcggg tcagcggcac catgaacgtc tcgggctgcc caggggccgg gaacggagc caggcggg cggggggag ctagccccc ctagccccc ctagccccc ctagccccc ctcatcttc tctggtgac cgtgggcaac acgtggtgc tggcggtgt gctggcgggc ggccaggcgg tcagcactac caactgttc atcctaac tggcggtggc cgactgtgt ttcatcctgt gctcgtgccc cttccagggc accatata cctggagcgg ctgggtgttc ggctcgtgc tgtgcaagg ggtgacttc ctcatcttc tcaccatga cgcagcagc ttcagcgtg ccgctgtct cctggacag tatctggca tccgctacc cgtgactcc	Homo sapiens

366	7221	Galanin Receptor GalR2	NP_003848.1	<p>cgcgagctgc gcacgcctcg aaacgcgctg gcagccatcg ggctcatctg ggggctgtcg ctgtcttct cgggccccta cctgagctac taccgceagt cgcagctggc caacctgacc gtgtgccatc ccgcgtggag cgcacctcgc cgcgcgcga tggacatctg cacttctgtc ttcagctacc tgttctctgt gctggttctc ggctgacct acgcgcgac cttgcgctac ctctggcgcg cgtcgaccc ggtggccgcg ggtcgggtg ccggcgccgc caagcgcaag gtgacacgca tgatctcat cgtggccgcg ctctctgccc tctgtggat gcccaccac gcgtcatcc tctggtgtg gttcgccag ttccgctca cgcgcgccac ttatgcgctt cgcctctct cgcacctgtt ctctacgcc aactctcgc tcaaccccat cgtttacgcg ctggtctcca agcaattccg caaaggcttc cgcacgatct gcgcgggccc gctgggcccgt gccccaggcc gagctcggg ccgtgtgtgc gctgcgcgc gggcgaccca cagtggcagc gtgttgagc gcgagtcacg cgaacctgtg cacatgagc agggcgccgg ggccttctgt ccctgcccc gcgcttccc gccatgcat ctgagccct gtcctggccc gtcctggcag ggcccaagg caggcgacg catcctgacg gttgatgtg cctgaaagca cttagcgggc gcgtgggat gtcacagagt tggagtcatt gttgggggac cgtgggcccg</p>	Homo sapiens
				<p>LRGGQAVSTT P NLFILNLGVA DLCFILCCVP FQATYTLTG WVGSLICKA VHFILFLTMH ASSFTLAAYS LDRLAIRYP LHSRELTPR NALAAIGLIW GLSLFSGPY LSYRQSOLA NLTVCHPAWS APRRRAMDIC TEFVSYLLPV LVGLTYART LRYLWRADV VAAGSGARRA KRKVTRMILI VAALFCICWM PHHALILCW FQGFPLTRAT YALRILSHLV SYANSCVNPI VYALVSKHFR KGERTICAGL LGRAPGRASG RVCAARGTH SGSVLRESS DLLHMSEAG AIRPCPGASQ PCILEPCPGP SWQGPKAGDS ILTVDA</p>	
367	7246	Orexin Receptor 1	NM_001525	<p>cctccctca ggaagtttga ggctgagacc cgaaagacc tgggtgcaag cctccaggca A ccctgaaggg agtgggctga gggctggccc agctccctc ctctccctct gttagagccta ggatgcccc ctgctgcgc ggtcctgag ctcctgagc cctcagccac ccaggggcc cagatggggg tcccccttg cagcagagag ccgtccccg tgcctccaga ctatgaagat gagttctcc gctatctgt gctgattat ctgtaccca aacagtatga gtgggtctc atcgagcct atgtggtgt gttcgtctg gccctgggtg gcaacacgct ggtctgctg gccgtgtggc ggaaccacca catgaggaca gtaaccaact acttcattgt caacctgtcc ctggctgacg ttctggtgac tgctatctgc ctgcccggcca gctgctggt ggacatcact gagtcctggc tgttcggcca tgccctctgc aaggtcatcc cctatctaca ggtgtgttcc gtgtcagtg cagtgtctaac tctcagcttc atcgccctg accgtggtg tgcctatgc caccactat tgttcaagag cacagcccgg cggggcccgt gctccatcc gggcatctgg gctgtgtcgc tggccatcat ggtgcccag gctgcagtc tggaaatggag cagtgtgtctg cctgagctag ccaaccgcac acggtcttc tgaagtctgt atgaacgtg ggcagatgac ctctatccca agatctacca cagtgtcttc ttattgtca cctacctggc cccactgggc ctcatggcca tggcctattt ccagatattc cgaagctct gggcgccga gatccccggc accacctcag cactggtgag gaactggaag cgcacctcag accagctggg ggacctggag cagggcccta gtggagagcc ccagccccg ggcgcgcct tcctggctga agtgaagcag atcgctgcac ggaggagac cccaagatg ctgatggtg tctgctggt cctcgcctc tgctacctgc ccatcagcgt ctcaatgtc cttaagagg tttctggat gttccgcaa gccagtgacc gcgaagctgt ctacgctgc ttacacctt cccactggt ggtgtacgcc</p>	Homo sapiens

368	7246	Orexin Receptor 1	NP_001516.1	MEPSATPGAQ MGVPDGSREP SPVPDYEDE FLRYLWRDYL YPKQYEWVLI AAYVAVFWA P LVGNTLVCLA VWRNHMRV TNYFIVNLSL ADVLVTALCL PASLLVDITE SWLFHALCK VIPYLQAVSV SVAVLTLFSI ALDRWYAICH PLLEFKSTARR ARGSILGIWA VSLAIMVPOA AWMECSSVLP ELANRTRLFS VCDERWADDL YPKIYHSCFF IVTYLAPLGL MAMAYFQIFR KLWGRQIPGT TSALVRNWKR PSDQLGDLEQ GLSGEPQPRG RAFLAEVKQM RARRKTAKML MVLLVFALC YLPISVLNLV KRVEGMFRQA SDREAVYACF TFSHWLVYAN SAANPIIYNF LSGKFRQEFK AAFSCCLPGL GPCGSLKAPS PRSSASHKSL SLQSRCSISK ISEHVLTSTV TTVL P	Homo sapiens
369	7247	Orexin Receptor 2	NM_001526	gggggggggg taattgagct teagctgagc cggagctagc ttctctctcc tgggtgcatt A gctgcagcct ccagtgccgg gtcctagtt cctcagctgc ctatctctcc ggtgcaacat cgcctgtaaa gacagcaaa gacccgcaga agtgcccg gagaagactc cggagggcatt ggctcagtaa cttttcacgt cattttctgc tcgggagccc cttctagcct ctcgcgcag cctttccac cgaaatcac cagtgtcat gggcgagcgt gagagagct tgcagcattg agcggaacgg gacttgagcc cgtgatgtcc ggcacacaaat tggagagactc cccctctgt cgcaactggt catctgcttc ggagctgaat gaaactcaag agccctttt aaacccacc gactatgacg acgaggaatt cctgcggtac ctgtggagg gatacctgca ccgaaagaa tatgagtggg tcctgatcgc cgggtacatc atcgtgttcg tcgtggctct cattgggaa gtcctgggtt gttggcaggt gtggaagaac caccacatga ggacggtaac caactactc atagtcaatc tttctctggc tgatgtgctc gtgacacatca cctgccttc agccacactg gtcgtgggata tcaactgagac ctgggttttt ggacagctcc ttgcaaaagt gattccttat ctacagacgg tgcggtgtc tgtgtctgtc ctacacactga gctgtatcgc cttggatcgg tggtagtcaa tctgtcacc tttgatgttt aagagcagag caaagcgggc cgttaacagc attgtcatca tctgattgt ctcctgcatt ataagtattc ctcaggccat cgtcatggag tgcagcaccg tgttccagg cttagccaat aaacccacc tctttacggt gttgtatgag cgctggggtg gtgaaattta tcccaagatg taccacatct gttctcttct ggtgacatac atggcaccac tgtgtctcat ggtgttggtt tatctgcaa tttctcgaa actctggtt cgacagatcc ctggaacatc atctgtagtt cagagaaaat ggaagcccct gcagcctgtt tcacagcctc gagggccagg acagccaacg agtcccgga tgcgctgtt ggcggctgaa ataaagcaga tccgagccag aggaaaaa gcccggatgt tgatggttgt gcttttggtg tttgcaattt gctatctacc aattagcatc ctcaatgtgc taaagagagt atttgggatg tttgcccata ctgaagacag agagactgtg tatgcctggt ttacctttt acactggctt gtatatgcca atagtgtgc gaatccaatt atttataatt ttctcagtg aaaatttcga gaggaattta aagctgcgtt ttcttgctgt tgccttgag ttaccatcg ccaggaggat cggtcaccac ggggacgaac tagcacagag agccggaagt ccttgaccac tcaatcagc	Homo sapiens

370	7247	Orexin Receptor 2	NP_001517.1	<p> aactttgata acatatcaaa actttctgag caagtgtgc tcactagcat aagcacactc ccagcagcca atggagcagg accactcaa aactggtaga atattattc atatgacaag gataacctgag taaaactatc ctttttaaaa tcactgggaa cagaaaatttt attatctat gatgtgaagc taaaattact tgtggatctt tttttttttt aatctattgc tctttggaaa taaaaaaaa gtcagtttaa aatgaaaaaa aaaaaaaa aaa YIIVFVALI GNVLVCAVM INETQPFNL PTYDDEEFL RYLWREYLHP KEYEWVLIAG P FFQSLSCKVI PYLOTVSVS SVLTSLCIAL DRWYAICHPL MKSTAKRAR NSIVIWIWS CIIMIPQAIV MECSTVFPGL ANKTLFTVC DERWGGEIYP KMYHICFFLV TYMAPLCMLV LAYLQIFRKL WCRQIPGTSS VVQRKWKPLQ PVSQPRGPQ PTKSRMSAVA AEIKQIRARR KTARMLMVVL LVFAICYLPI SILNLKRVF GMFAHTEDRE TVYAWFTFSH WLWYANSAAN PIIYNFLSGK FREEFKAAFS CCCLGVHHRQ EDRLTRGRTS TESRKSLLTQ ISNFDNISKL SEQVVLTSIS TLPANGAGP LQNW </p>	Homo sapiens
371	8436	Platelet- Activating Factor Receptor	NM_000952	<p> ccagctgata ttccagccca cagcaatgga gccacatgac tcctccaca tggactctga A gttccgatac actctcttcc cgattgttta cagcatcatc ttgtgctcg gggctattgc taatggctac gtgctgtggg tctttgcccg cctgtaccct tgcaagaaat tcaatgagat aaagatcttc atggtgaacc tcaccatggc ggacatgctc ttcttgatca cctgccact ttggattgct tactaccaaa accagggcaa ctggatactc cccaaattcc tgtgcaactg ggctggctgc cttttcttca tcaacaccta ctgctctgtg gccttcttgg gcgtcatcac ttataaccgc ttccaggcag taactcgcc catcaagat gctcaggcca acaccgcaa gctggcctc tctttgtcct tggctatctg ggtggccatt gtgggagctg cactctactt cctcatcctg gactctacca acacagtgc ccagagtgc ggtcaggcca acgtcactcg ctgctttgag cattacgaga agggcagcgt gccagtcctc atcatcaca tcttcactg gttcagcttc ttctgtgtct tctcatcat cctctctgc aacctggtca tcactcgtac cttgctcatg cagccgtgac agcagcagcg caacgctgaa gtcaagcgc gggcgtgtg gatgggtgac acggtcttgg cgtgtgtcat catctgctc gtgcccacc acgtggtgca gctgccctgg accctgctg agctgggctt ccaggacagc aaattccacc aggccattaa tgatgcacat caggtcaccc tctgctcct tagcaccac tgtgtcttag accctgttat ctactgttc ctccacaaga agttccgcaa gcacctcacc gaaaagtctt acagcatcg cagtagccgg aatgctccc gggccaccac ggatacgtc actgaagtgg ttgtgccatt caaccagatc cctggcaatt cctcaaaa ttagtccttg cttc MEPHDSSHMD SEFRYTLFPI VYSIIFVLGV IANGYVLWVF ARLYPCKKEN EIKIFMNL P MADMLFLITL PLWIVYQNG GNWILPKFLC NVAGCLFFIN TYCSVAFLGV ITYNRFQAVT RPIKTAQANT RKRGISLSLV IWAIVAAS YFLILDSTNT VPDSAGSGNV TRCFEHEKNG SVPVLIHIF IVFSFVLVFL IILFCNLVII RTLLMQPVQO QRNAEVKRRR LWMVCTVLAV FIICFVPHHV VOLPWTIAEL GFQDSKFHOA INDAHQVTLIC LLSTNCVLDL VIYCFLLTKKE RKHLTEFYS MRSSRKCSRA TTDTVTEVVV PFNQIPGNSL KN </p>	Homo sapiens
373	8509	G Protein- Coupled Receptor Ls8509	NM_007223	<p> tgggggcgctc taactcgtc ccgcccgcg tgtcaagtgc tgttctagcg gccgagggac A cgaggggggc taagaaggc ggcgccagc catcgacagg caaaaaggc ctgcggaacg gggtcccgct cgccagtctt gaggcaggc gtcggagcca caagtgggg gctgggaagc aggaccagc acggcgctct tggcaggcgg ccggggcgag gccaggctg ctggggagcg </p>	Homo sapiens

tcaggggcttt ccaccaagc catgggcgct gtggggcact cgggggtccc ctctgggctc
cgccactcg gcgtgggcat tacgttggct tcacatcgcc atccagcctc gaagccaaca
ggactgaaaa atagcttcgg ccaacgttc tctcccgct aaggagaggg gtcgagtgcg
tcagcccag gggactggag aggatgccc tagccctcga gggcgaggag accecggtt
gaaggaggca gcgggagcgg agagcgccct ccttgacct gaatgacct ctctgtgtt
tccattcctg tcgagtgggc tgggccaagc tgaccacct ggaggaggga cggacgacgc
tcggcggtct ctgaccgtgc cgccttcttg tggctgtga ctgggatcca ggaggagtg
ggcatggggc gagcgcgcc ctcctccct cccgcctcc cggcgccgg ggttggcgat
gtggagacgt gaggggacc gtgggtgct cggcttctc caggactccg ccaggcgccc
gcgctccct cctcacccg aggagagag gctccgccc gggctccgag gcggcgggcg
cgcgagcc gcacaacgc tccggcgcc aggtcgggg tgtgaaccgc agcgcgctcg
gggagttcgg cgaggcgag ctgtaccgc agttcaccc caccgtgcag gtctcatct
tcataggctc gctgctgga aacttcattg tgttatggt aactgccc acaaccgtgt
tcaaatctgt caccacagg tcaattaaa acctggcctg ctcggggatt tgtgccagcc
tggctgtgt gccctcgac atcactctca gcaccagtc tcactgttgc tgtggatct
acaccatgct cttctgcaag gtctcaaat ttttgcaaa agtatctgc tcttgacca
tctcagctt cctgtatt gcttggaca ggtactact agtctctat ccactggaga
ggaaaatctc tgatgcaag tccgtgaac tggtagtga catctggcc catcgagtgg
tggccagtgc cctgtgttt gcagtaacca atgtggtga catctatgcc acgtccacct
gcacggaagt ctggagcaac tccctgggccc acctggtga cgttctggtg tataacatca
ccacggtcat tgtgctgtg gtggtggtg tctcttctt gatactgac cgacggggccc
tgagtgcag ccagaagaag aagtcata tagcagcgt ccggacccca cagaacacca
tctctattcc ctatgctcc cagcgggag cagactgca cggaccctg ctctccatgg
tgatggctct catctgtgt agcgtgccct atgccacct ggtcgtctac cagactgtgc
tcaatgtccc tgacacttcc gtcttcttgc tgtcactgc tgttggctg ccaaaagtct
ccctgctggc aaacctgtt ctttcttta ctgtgaacaa atctgtccc aagtgttga
tagggacct ggtgcaacta caccacggt acagtgcgcg taatgtggtc agtacaggga
gtggcatggc tgaggccagc ctggaaccca gcatacgctc ggttagccag ctctgggaga
tgttccacat tgggcagcag cagatcttta agccacaga ggatgaggaa gagagtggg
ccaagtacat tggctcagct gacttccagg ccaaggagat atttagcacc tgcctggagg
gagagcagg gccacagttt ggcctctctg cccacctct gagcacagt gactctgtat
cccaggtggc accggcagcc cctgtggaac ctgaaacatt cctgtataag tattccctgc
agtttggctt tgggcttctt gagtgcctc ctcagtggct ctcaagacc cgaacacaga
agaagcgct gcttcccc tgggcaaca cccagaaga gctgatccag acaagggtgc
ccaaggtagg cagggtggag cgggaagatga gcagaacaa taaagtgagc attttccaa
aggtggattc ctageaagga ttgtaattc ttggaagcaa cggggggctt ccatattccc
accagagtgt ggggaatgctg tggccatgtg attgtatgat ctcttgcaa ctcagtgta
gttgattcct ccaataggg ccagatgctt ttgaatgata gggaatcta cataaatcc
agtgtcctct ttattgagg agtatatgta tccatctcag tgatccatgt ccttagtgaa
gtccacatta ttctctgtg ggacaagagc tgggacagttt tgaatgggtc ttgaggtggg

374	8509	G Protein- Coupled Receptor Ls8509	NP_009154.1	<p> taacccatgt gcactttctg aggatgcctc acttccctgg gctctgcaga gaacacacag agagaagact ttcagagctc acagagcag 99agcaggag cactctaagg gaattc MGHNGSWISP NASEPHNASG AEAGVNRSA LGEFGEAQLY RQFTTTVQVV IFIGSLLGNF P MVLWSTCRIT VFKSVNRFI KNLACSGICA SLVCPFDII LSTSPHCCWW IYTNLFCKVV KFLHKVFCVS TILSPAIAL DRYYSVLVPL ERKISDAKSR ELMVYIWAHA VVASVPVFAV TNVADIYATS TCTEWNSNL GHLVYVLVYN ITTVIPVVV VFLELILRR ALSASQKKKV IIAALRTPQN TISIPYASQR EAEHLATLLS MMVFILCS PYATLVVYQT VLNVPDTSVF LLLTAVWLPK VSLLANPVLF LTVNKSVRKC LIGTLVQLHH RYSRRNVVST GSGMAEASLE PSIRSGSQLL EMFHIGOOOI FKPTDEDEES EAKYIGSADF QAKEIFSTCL EGEQGPFAP SAPPLSTVDS VSQVAPAAPV EPETFPDKYS LQFGFGPFEL PPQWLSETRN SKKRLLPPLG NTPHEELIQTK VPKVGRVERK MSRNKVSIF PKVDS </p>	Homo sapiens
375	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NM_006173	<p> ttgataggga tagaacaaca tttggctgct tctatagtta acaagatgct gttacattcc A ttgcctcact agctctgaag actatactag cgggacaaaag aaagcacctg agatgagctg agaggagggt aaaggtacac agagatcccc tggatatattg tctatgtcc tctcaggggc ttgtctacca ctagagaatt atccatatta agaacttgca ttgatattct gggttctgtt tcatttttta ggggtctcaag agcacgctca agtcattcac atgtttccat caaatacaga cacagatcag ggaagattaa accctactaa tttctctgctg gatgcctcac acaagggtgc cttccaagaa ctaatggcca aaatatccac ccacaacaca aataagctta gaaaaatctct tcttacaatc ctgacacaaat ggaagtttcc ctaaacaccc cagcatctaa tacaaccagc acaagaaca acaactcggc atttttttac tttgagtctt gtcaacctc tctccagct ttactcctat tatgcatagc ctatactgtg gtcttaattg tgggaccttt tggaaacctc tctctcatca tcatcatctt taagaagcag agaaaagctc agaatctcac cagcactactg attggcaatc tctccctctc tgataacctg gtgtgtgtca tgtgcatcca ttttactatc atctacactc tgatggacca ctggatatatt ggggatacca tgtgcagact cacatcctat gtgcagagtg tctcaatctc tgtgtccata tttctcacttg tattcactgc tgtcgaaaga tatcagctaa ttgtgaaccc ccgtggctgg aagcccagtg tgactcatgc ctactggggc atcacactga tttggctgtt tccctctctg ctgtctattc cctcttctct gtccataccc ctcaactgat agcccttccg caacctctct cctccactg acctctacac ccaccagggtg gcctgtgtgg agaactggcc ctccaaaaag gaccggctgc tcttcaccac ctccctttt ctgtgcagt attttgttcc tctaggcttc atctcatct gctacttgaa gattgttattc tgcctccgca ggagaaatgc aaaggtagat aagaagaagg aaaatgaggg ccggctcaat gagaacaaga ggaatcaaac aatgttgatt tccatctggg tgaccttggg agcctgctgg ctgccccgaa tatcttcaat gtcatctttg actgggtatca tgagggtgctg atgagctgcc accacgacct ggtatttgta gtttgccact tggttgctat ggtttccaca tgtataaacc ctctctttta tggctttctc acaaaaaatt tccaaaaagg cctggtagtg cttattcacc actgctgggtg cttcacacct caggaaagat gtgaaaaat tgccatctcc actatgcaca cagactccaa gaggtcttta agattggctc gtataacaac aggtatatga aaattgataa tgcctgaagct cttcttgaat gggagctgga caggtaatgg tgggaatagg gcaagatgca gaaagaagaa accagaacca aaaaatagcaa cttataccc acttttctt taggctaaga ctgctgtct catatgtcta tccaacacac cctccaacat acacgaacac acataccacc ccttttctct taagaaaaata actctaataa ttcaaacacac ctgccccgcca tcattgtggtg </p>	Homo sapiens

376	8896	Neuropeptide Y Receptor Type 6 Pseudogene	NP_006164.1	mevslnhpas nttstknns adffescqp ppalllllci aytvvlivgl fgnsliliii P fkqkrkaqnf tsilianlsl sdtlvcvmci hftiiytimd hwifgdtmcr ltsyvqsvsi svsifslvft averyqlivn prgwksvth aywgittlwl fslilsiplff lsyhltdepf rnslsptdly thqvacvwn pskkdrllft tsflflgyfv plgfilicyl kiviclrrrn akvdkkkene grlnenkrin tmlisivvtf gacwlpriiss msslgtgimrc cattccccacc ctctcttctt taataagcag gaggcagaaaa gacaaattcc aaagaggatt A gttcagttca agggaatgaa gaattcagaa taattttggt aaatggattc caatatacggg aataagaata agctgaacag ttgacctgct ttgaagaac atactgtcca ttgtctaaaa ataactata acaacaaaac caatcaaaat gaattcaaca ttattttccc aggttgaaaa tcattcagtc cactctaatt tctcagagaa gaatgcccag ctcttggtct ttgaaaaatga tgattgtcat ctgccccttg ccattgatatt tacccttagct ctgtcttatg gagctgtgat cattcttggt gtctctggaa acctggcctt gatcataatc atcttgaac aaaaggagat gagaaatggt accaacatcc tgattgtgaa cctttccttc tcagacttgc ttgttgccat catgtgtctc cctttacat ttgtctacac attaatggac cactgggtct ttggtgaggg gatgtgtaag ttgaatcctt ttgtgcaatg tgtttcaatc actgtgtcca tttctctct ggttctcatt gctgtggaac gacatcagct gataatcaac cctcgaggggt ggagacacaaa taatagacat gcttatgtag gtattgtgtg gatttggtc ctgtctgtgg ctctctcttt gcctttcctg atctaccaag taatgactga tgagccgttc caaaatgtaa cacttgatgc gtacaaagac aaatacgtgt gctttgatca atttccatcg gactctcata ggttgctcta taccactctc ctcttggtgc tgcagtattt tgggtccactt tgttttatat ttatttgcta cttcaagata tatatacgcc taaaaaggag aaacaacatg atggacaaaga tgagagacaa taagtacagg tccagtgaac ccaaaagaat caatatcatg ctgctctcca ttgtggtagc atttgcatg tgtgggtccc ctcttacct ctttaacact gtgtttgatt ggaatcatca gatcattgct acctgcaacc acaatctgtt attcctgctc tggccacctca cagcaatgat atccacttgt gtcaacccca tattttatgg gtctctgaac aaaaacttcc agagagactt gcagttcttc ttcaactttt gtgatttccg gtctcgggat gatgattatg aaacaatagc catgtccacg atgcacacag atgtttccaa aacttctttg aagcaagcaa gcccagtcgc atttaaaaa atcaacaaca atgatgataa tgaaaaaatc tgaactact tatagcctat ggtcccgat gacatctgtt taaaaacaag cacaacctgc aacatacttt gattacctgt tctcccaagg aatgggggtg aaatcattt aaattgacta agattttctt gtcttgctt ttactgcttt tgttgtagt ttcataatta catttgaac aaaaagtgtg ggtttgggg tcttctggaa atagttttga ccagacatct ttgaagtgtc ttgttgaaat ttatgcata aatataaaga cttttatact gtacttattg gaatgaaatt tctttaaagt ttacgatgc gctgacttca gaagtacctg ccataccaata cgggtcattag attgggtcat cttgattaga ttagattaga ttgattgtc aacagattgg gccatcctta ctttatgata ggcattcatt tagtgtgtta caatagtaac agtatgcaaa agcagcattc aggagccgaa agatagtctt gaagtcatc agaagtgggt tgaggtttct gtttttgggt ggtttttgtt tgttttttt ttttttcacc ttaaggggagg ctttcatttc ctcccgactt attgtcactt aaatcaaaat	Homo sapiens	
377	9421	Neuropeptide Y Receptor Type 1	nm_000909			

378	9421	Neuropeptide NP_000900.1 Y Receptor Type 1	<p> ttaaaaaatga ataaaaagac atacttctca gctgcaataa ttatggagaa ttggggcacc acaggaatga agagagaaag cagctcccca acttcaaaa cattttgga cctgacaaca agagcatttt agagtaatta atttaataaa gtaaattagt attgctgcaa atagtaaaat tataattatt tgaattgatg gtaagaagat ttccattttt tttacagac tgttcagtgt ttgtcaagct tctggtctaa tatgtactcg aaagacttcc cgcttacaat ttgtagaaac acaaatatcg ttttccatac agcagtgcct atatagtgc tgattttaac ttcaaatgct catctttcaa aggaagtaac accaaggtac aatgttaag gaattttcac ttacctagc agggaaaaat acacaaaaac tgcagatact tcatatagcc cattttaact tgtataaact ggtgacttg tggcgcttta taaataatgc actgtaaga tttactgaata gttgtgtcat gtaaatgac ctaatttcat gttacttgta atcatgattg agctcagaa tcaattggag aaactatatt ttaagaaca agacatactt caatgtatta tacagataaa gtattacatg tgtttgattt taaaaggcg gacattttat taaatcaat attgttttg cttttctga ggagtctctt tcagtttcat tttttctcat cccatgactt cctccgatg gt MNSTLFSQVE NHSVHSNFSE KNAQLLAFEN DDCHLPLAMI FTLLALAYGAV IILGVSGNLA P LIIILKQKE MRNVNIIIV NLSFSDLIVA IMCLPFTFVY TLMDFWVGE AMCKLNPFVQ CVSITVSIFS LVLI AVERHQ LIINPRGWRP NNRHAYVGIA VIWVLAVASS LPFLIYQVMT DEPFQNVTL D AYDKYVCFD QPSPDSHRLS YTTLLVLQY FGPLCFIFIC YFKIYIRLKR RNNMMDKMRD NKYRSSETR INIMLLSIV AFVCLPLT IFNTVFDWNH QIIATCNHNL LFLCHLTAM ISTCVNPIFY GFNLKNFQRD LQFFNFCD F RSRDDDYETI AMSTMHTDVS KTSLKQASPV AFKINNNDD NEKI </p>	Homo sapiens
379	9834	Corticotropin releasing factor Receptor 1	<p> agccgagcga gcccgaggat gggaggagcc ccgcagctcc gtctcgtcaa ggccttctc A ctcttggggc tgaaccccg ctctgctcc ctccaggacc agcactgcga gagcctgtcc ctggccagca acatctcaga caatggctac cgggagtgc tggccaatgg cagctggcc gcccgctga attactccga gtgccaggag atctcaatg agagaaaaa agcaagggtg cactaccatg tgcagtcac catcaactac ctgggccact gtatctccct ggtggccctc ctggtggcct ttgtctctt tctgcggtc aggagcatcc ggtgcctgcg aaacatcatc cactggaacc tcatctcgc ctctcctcg cgcaacgcca cctggttctg ggtccagcta accatgagcc ccgaggtcca ccagagcaac gtgggctggt gcaggttggg gacagccgcc tacaactact tccatgtgac caacttcttc tggatgttcg gcgagggtcg ctacctgcac acagccatcg tgcacacta ctccactgac cggctgcgca aatggatgtt catctgcatt ggtgggggtg tgccttccc catcatgtg gccctggcca ttgggaagct gtactacgac aatgagaagt gctggtttg caaaaggcct ggggtgtaca ccgactacat ctaccaggcc cccatgaccc tggctctgt gatcaatttc atcttcttt tcaacatcgt ccgcatcctc atgaccaagc tccgggcac caccacgtct gagaccattc agtacaggaa ggctgtgaaa gccactctgg tgcgtctgccc cctcctgggc atcaactaca tgcgttctt cgtcaatccc ggggaggatg aggtctccc ggtcgtcttc atctacttca actccttctt ggaatcctc cagggcttct ttgtgtctgt gtctactgt ttcctcaata gtgaggtccg ttctgccatc cggaaagagt ggcaccggtg gcaggacaa gactcgtacc gtcgccgagt ggcctgtgcc atgtccatcc ccactcccc aacctgtgtc agctttcaca gcatcaagca gtccacagca gtctga </p>	Homo sapiens

380	9834	Corticotropi n releasing factor Receptor 1	NP_004373.1	MGHPQLRLV KALLLLGLNP VSASLDQDHC ESLSLASNIS DNGYRECIAN GSWAARWYS P ECQEILNEEK KSKVHVHVAV IINYIGHCIS LVALLVAFVL FLRLRSIRCL RNIIHWNLIS AFILRNATWF VVQLTMSPEV HQSNVWCRL VTAANYFHV TNFFWMEGEG CYLHTAIVLT YSTDLRLKWM FICIGWGVFF PIIVAWAIGK LYDNEKWCWF GKRPGVYTDY IYQGPMLVL LINFIFLNI VRILMTKLRA STTSETIQYR KAVKATLVL PLIGITYMLF FVNPGEDEV RVVFIYNSF LESFQGFVS VFYCFNLSEV RSAIRKRWHR WQDKHSIRAR VARMSIPT PTRVSFHSIK QSTAV	Homo sapiens
381	10457	Frizzled-2	NM_001466	cgagtaaaagt ttgcaaaagag ggcgggggag ggcagcgcgc agcgaggagg cgccggggaa A gaagcgaggt ctccgggttg gggcgggggg gggggggggc gccaaaggag cggtggggg gcggcgggcca gcatcgggcc ccgcagcgcc ctgccccgcc tgcgtctgcc gctgctgctg ctgccccgcg ccgggcgcgc ccagttccac ggggagaaagg gcatctccat ccgggaccac ggcttctgcc agcccatctc catcccgctg tgcacggaca tcgctacaa ccagaccatc atgccccacc ttctgggcca caccgaaccag gaggacgcag gcctagaggt gcaccagttc tatccgctgg tgaaggtgca gtgctcgccc gaactgcgt tcttctgtg ctccatgtac gcaccctgtg gcaccgtgct ggaacaggcc atcccccggt gccgtcttat ctgtgagcg gcgcgccagg gctgcgaagc cctcatgaac aagttcggtt ttacgtggcc cgagcgccgt cgctgcgagc acttccgcg ccacggcgcc gacgagatct gcgtcgcca gaaccactcc gaggacggag ctcccgcgct actcaccacc gcgcgcgcgc cgggactgca gccgggtgcc gggggaccc cgggtggccc gggcgggcgc ggcgtcccc ccgctacgc cagctggag cacccttcc actgcgcgcg cgtctcctcaag gtgccatctc atctcagcta caagtttctg ggcgagcggt attgtgctgc gccctgcgaa cctgcgcgc ccgatgggtc catgttcttc tcacaggagg agacgcgtt cgcgcgcctc tggatcctca cctggtcgtt gcgtgctgc gcttccact tcttactgt caccacgtac ttggtagaca tgcagcgctt ccgtaccca gagcggccta tcatttttct gtccggctgc tacaccatgg tgcgtgtggc ctacatcgcg ggcttcgtgc tccaggagcg cgtgggtgtc aacgagcgct tctccgagga cgtttaccgc acggtggtgc agggcaccac ccaggtcggtc atcctgtgc tcacctggtt cctggcagcc ttcagcatgg ccagctccat ctggtgggtc atcctgtgc tcaacttcca cctggcgcc ggcatgaagt ggggcccaga ggcacatcgag gccaaacttc agtacttcca cctggcgcc tgggcccgtgc cggcgcgtcaa gaccatcacc atcctggcca tgggccagat cgacggcgac ctgctgagcg cgtgtgctt cgtaggcctc aacagcctgg acccgctgcg gggcttcgtg ctagcgccgc tcttctgta cctgttcatc ggacgtcct tctcctggc cggcttcgtg tcgctcttcc gcacccgcac catcatgaag cagcagcgca ccaagaccga aaagctggag cggctcatgg tgcgcatcg cgtcttctcc gtgctctaca cagtgcctc caccatcgtc atcgcttgct actttacga gcaggccttc ccgcagcact gggagcgctc gtgggtgagc cagcactgca agagcctggc catcccgctc ccggcgact acacggcgcg catgtcgcc gacttccagg tctacatgat caaatacctc atgacgtca tctgtgggcat cagctcggc ttctggatct ggtcgggcaa gacgtgcac tctgtgggga agttctacac tgcctcacc aacagccgac acggtgagac caccgtgta gggacgccc caggccggaa ccgcggcg cttctctccg ccgggggtg gggccctaca gactcgtat tttttttt taaataaaaa acgatcgaaa ccatttact tttaggttg tttttaaaag agaactctct gcccaacac ccc	Homo sapiens

382	10457	Frizzled-2	NP_001457.1	MRPRLPRL LLPLLLPAA GPAQFHGKQ ISIPDHGFCQ PISIPLCIDI AYNQIMPNL P LGHTNQEDAG LEVHQFYPLV KVQCSPELRF FLCSMYAPVC TVLEQAIPPC RSICERARQG CEALMNKFGF QWPERLRCEH FPRHGAEOIC VQGNHSEDA PALTTATPPP GLQPGAGGTP GGPGGGGAPP RYATLEHFFH CPRVLKVPY LSKFLGERD CAAPCEPARP DGSNFFSQEE TRFARLWILT WSVLCCASTF FTVTYLVDM QRFYPERPI IFLSGCYTMV SVAYIAGFVL QERWVCNERF SEDGYRTVVQ GTKKEGCTIL FMWLYFFSMA SSIWWVILSL TWFLAAGMKW GHEAIEANSQ YFHLAWAVP AVKTTITILAM GQIDGDLISG VCFVGLNSLD PLRGFVLAPL FVYLFIGTSF LLAGFVSLFR IRTIMKHDGT KTEKLERLMV RIGVFSVLYT VPATIVIACY FYEQAFAREHW ERSWVSQHCK SLAIPCPAHY TPRMSPDFTV YMIKYIMTLI VGITSGFWIW SGKTLHSWRK FYTRLNLSRH GETTV	Homo sapiens
383	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP11Y20)	NM_022571	atggccttac tgggcagcca gcactccggc gccccctcgg cggccggccc acctggcggg A acttcctcag cggccacggc ggcctgtctc tctctcagca ccgtggcgac cggcgcgctg gggaacctga gcgacgcaag cggaggcggc acagctcgcc ctcctgggtg cggcgccctt ggcgggtccg gggcagcgcg ggaggcggg gcggcggtga ggccggcgtt agggccggag gcggcgccgc tgcgtgcgca cggagctgca gtggcgcccc aggcgctcgt cctcctgctc atcttcctgc tgtctagcct tggcaactgc gcgtgatggt ggggtgattgt gaagcacgg cagctccgca ccgtcaccaa cgccttcac cgtctcgtgt cctctcggga tctgctcacg gcgtgctct cctgccccgc cgccttcctg gacctctca ctcgccccgg ggggttcggcg cctgcgtgc cgcggggggc ctggcgcggc ttctgcggc caagccgctt cttcagctcg tgcttcggca tgcgtacgc tcagcgtggc gctcactcgc ttggaccgtt actgcgctat cgtcggcgcc cgcgggagaa gatcggcgcc cgcggcgccg tgcagctgct ggcggcgccc tggtgacgg ccctgggctt ctcctggcc tgggagctgc tggggcgcc cggggaactc gcggcgggcc agagctcca cggctgcctc taccgacct ccccgagacc cgcgcagctg ggcgccccct tcagcgtggg gctgggtgtg gctgctacc tgcgtccctt cctgctcctc tgcttctgcc actaccacat ctgcaagacg gtgcgctgt cggacgtgcg cgtgcggcgg gtgaacacct acgcgcgct gctgcgttct tcagcgaggt ggcacggcc accaccgtcc tcatactga	Homo sapiens
384	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP11Y20)	NP_072093.1	MALLGSHSG APSAAGPPGG TSSAATAAVL SFSTVATAAL GNLSASGGG TAAAPGGGGL P GGSGAAREAG AAVRRPLGPE AAPLLSHGAA VAAQALVILL IFLSSLGNC AVMGVIVKHR QLRTVTNAFI LSLSLDLLT ALLCLPAFL DLFTPPGSA PALPAGPWRG FCRPSRFESS CFGIVYAQRG AHLVGPLLY RRPPEKIGR RRALQLLAGA WLTALGFSLP WELLGAPREL AAGQSFHGCL YRTSPDPAQL GGPFVGLV ACYLLPFLLI CFCHYHICKT VRLSDVRVRP VNTYARVLR SARCAPPSPS SS	Homo sapiens
385	14198	Interleukin-8 Receptor B	nm_001557	cattcagaga cagaaggtgg atagacaaat ctcacacctc agactggtag gctcctccag A aagccatcag acaggaagat gtgaaaatcc ccagcactca tcccagaatc actaagtggc acctgtcctg gggcaaatc ccaggacaga cctcattgtt cctctgtggg aatacctccc caggaggcca tccctggattt ccccttgca acccaggtca gaagtctcat cgtcaaggtt gtttcatctt ttttttcttg tctaacagct cgtactacca cccaacctg aggcacagt aagacatcgg tggccactcc aataacagca ggtcacagct gctcttctgg aggtgtccta caggtgaaaa gcccagcgac ctagtcagga ttttaagttta cctcaaaaaat ggaagatttt	Homo sapiens

aacatggaga gtgacagcgtt tgaagatttc tggaaagggtg aagatcttag taattacagt
tacagctcta cctgcccc ttttctacta gatgcgcccc catgtgaacc agaaccctg
gaaatcaaca agtattttgt ggtcattatc tatgccttgg tattctgct gagcctgctg
ggaaactccc tcgtgatgct ggtcatctta tacagcaggg tcggccgctc cgtcaactgat
gtctacctgc tgaacctagc cttggccgac ctactctttg cctgacctt gccatctgg
gccgcctcca agtggaatgg ctggattttt ggcacattcc tgtgcaagggt ggtctcactc
ctgaagggaag tcaacttcta tagtggcatc ctgtactctgg cctgcatcag tgtggaccgt
tacctggcca ttgtccatgc cacacgcaca ctgaccaga agcgtactt ggtcaaaattc
atatgtctca gcatctgggg tctgtccttg ctccctggcc tcctgtctt acttttccga
aggaccgtct actcatccaa tgttagccca gctgctatg aggacatggg caacaataca
gaaaactggc ggaatgtgtt acggatcctg cccagctct ttggcttcat cgtgccactg
ctgatactgc tgtttctgta cggattcacc ctgcctaogc tgtttaaggc ccacatgggg
cagaagcacc gggccatgct ggtcatcttt gctgtcttcc tcatttccct gctctgctgg
ctgccctaca acctggtcct gctggcagac acctcatga ggaaccaggt gatccaggag
acctgtgagc gccgcaatca catcgaccgg gctctggatg ccaccagat tctgggcac
cttcacagct gctcaaccc cctcatctac gccttcattg gccagaagt tgcocatgga
ctctcaaga tcttagctat acatggcttg atcagaagg actcctgcc caagacagc
aggccttctt ttgttgctc ttcttcagg cacactcca ctactctcta agcctcctg
cctaagtga gccgtgggg ttctccctt ctcttcacag tcacattcca agcctcatgt
ccactgggtc ttcttggtct cagtgtaaat ctagcttca ctagcttca aggaagtaga
ggaggccacg ttcttactag ttcccttgc atggtttaga agcttgccc tgggtgcctca
cccttgcca taattactat gtcatttgc ttgagctctgc ccactcctgc cctgagccca
tggcactcta tgttctaaga agtgaatac tacactccag tgagacagct ctgcatactc
ataggatgg ctagtatcaa aagaaagaaa atcaggctgg ccaacggggt gaaacctgtc
tctactaaaa atacaaaaa aaaaaaaat tagccggcg tgggtgtgag tgcctgtaat
cacagtact tgggaggctg agatgggaga atcacttga cccgggagca gaggttgca
tgagccgaga ttgtgccct gccatccag ctgagcgaca gtgagactct gtctcagtc
atgaagatgt agaggagaaa ctggaactct cgagcttgc tgggggggat tgtaaaaatg
tgtgacct gcagaagaca gtatggcagc ttctcctaaa acttcagaca tagaattaac
acatgacct gcaattccac ttataggaaat tgaccacaa gaaatgaaa cagggacttg
aacccatatt tgtacaccaa tattcatagc agcttattca caagacccaa aaggcagaag
caaccctaat gttcatcaat gaatgaatga atggctaagc aaatgtgat atgtacctaa
cgaagtatcc ttcagcctga aagaggaatg aagtactcat acatgttaca acacggacga
accttgaaaa ctttatgcta agtgaataaa gccagacatc aacagataaa tagttatga
ttccacctac atgaggctact gagagtgaac aaatttacag agacagaaaa cagaacagtg
attaccaggg actgagggga ggggagcatg ggaagtgcag gtttaattgg cacagggttt
atgttttaga tgttgaaaaa gtctgcaga taaacagtag tgatagtgt accgcaatgt
gacttaatgc cactaaaattg acacttaaaa atggtttaaa tggtaaat tttatgtat
attttatc aatttaaaaa aaacctgag ccccaaaagg tattttaatc accaaggctg
atataaccaa ggctagaacc acctgcctat atttttgtt aaatgatttc attcaatc
tttttttaa taaaccattt ttacttgggt gtttat

386	14198	Interleukin-8 Receptor B	NP_001548.1	MEDFNMESDS	FEDFWKGEDL	SNYSYSSTLP	PFLDDAAPCE	PESLEINKYF	VVIYALVFL	P	Homo sapiens
				LSLLGNLSVM	LVILYSRVGR	SVTDVYLLNL	ALADLLFALT	LPIWAASKVN	GWIFGTFLCK		
				VVSLKKEVNF	YSGILLIACI	SVDRYLAIVH	ATRTLQKRY	LVKFICISIW	GLSLLALPV		
				LLFRRTVYSS	NVPACYEDM	GNNTANWRML	LRILPQSGF	IVPLLLIMLFC	YGFTLRTLK		
				AHMGQKHRAM	RVIFAVVLIF	LLCWLPYNLV	LLADTLMRQ	VIQETCERN	HIDRALDATE		
				ILGILHSCIN	PLIYAFIGQK	FRHGLLKILA	IHGLISKDSL	PKDSRPSFVG	SSSGHTSTTL		
387	14641	Calcitonin Receptor	NM_001742	cagaattcca	ggacaagag	atcttcaaaa	atcaaaatcg	aggttcacat	ttacaagccg	A	Homo sapiens
				gtgcttgcca	ctgtttcttc	ttctaaatca	cccaacccca	atctctctg	cttttcaaa		
				tcaaacctat	ccaacaatag	agccaagcc	attctttac	gtcgttagac	caagaagagat		
				gatggatgca	cagtacaaat	gctatgaccg	aatgcagcag	ttaccgcgat	accaagagaga		
				aggtccatat	tgcaatcgca	cttgggatgg	atggctgtgc	tgggatgaca	caccggctgg		
				agtattgtcc	tatcagttct	gccagatta	ttttccggat	tttgatccat	cagaaaaggt		
				tacaaaatac	tgtgatgaaa	aaggtgtttg	gtttaaacat	ctgaaaaca	atcgaacctg		
				gtccaaatat	actatgtgca	atgctttcac	tcctgagaaa	ctgaagaatg	catatgttct		
				gtactatttg	gctatgtgg	gtcattcttt	gtcaattttc	accctagtga	tttccctggg		
				gattttcgtg	tttttcagga	gccttgctg	ccaagggta	accctgcaca	agaacatgtt		
				tcttacttac	attctgaatt	ctatgattat	catcatccac	ctggttgaag	tagtacccaa		
				tggagagctc	gtgcgaagg	accgggtgag	ctgcaagatt	ttgcaatttt	tocaccagta		
				catgatggcc	tgcaactatt	tctggatgct	ctgtgaagg	atctatcttc	atacactcat		
				tgctgtggct	gtgtttactg	agaagcaacg	cttgcggtgg	tattatctct	tgggctgggg		
				gttcccgctg	gtgccaacca	ctatccatgc	tattaccagg	gccgtgtact	tcaatgacaa		
				ctgctggctg	agtgtggaaa	cccatttgc	ttacataatc	catggacctg	tcatggcggc		
				acttggtggtc	aatttcttct	ttttgtctca	catgtccgg	gtgcttgtga	ccaaaatgag		
				ggaaacccat	gaggcggaat	ccacatgta	ctgaaaggct	gtgaaggcca	ccatgatcct		
				tgtgcccctg	ctgggaatcc	agtttgtcgt	ctttccctgg	agaccttcca	acaagatgct		
				tggaagata	tatgattacg	tgatgcactc	tctgattcat	ttccagggct	tctttgttgc		
				gaccatctac	tgcttctgca	acaatgaggt	ccaaccacc	gtgaagcgc	aatgggccc		
				attcaaaatt	cagtggaaac	agcgttgggg	gaggcgccc	tccaaccgct	ctgctcgcg		
				tgcagcgct	gctgcggagg	ctggcgacat	cccaatttac	atctgccatc	aggagctgag		
				gaatgaacca	gccaacaacc	aaggcgagga	gagtgcctgag	atcatccctt	tgaatatcat		
				agagcaagag	tcactctgct	gaatgtgaag	gcaaacacag	catcgtgatc	actgagccat		
				catttccctg	gagaaagacc	atgcatttaa	agtatctcc	atcctcccag	gaaccgaaca		
				tatcatttgt	gaagaattat	tcagtgaatt	tgtccattgt	aatctgaag	aaagtatttc		
				ttgggtactgt	tgctttggga	gacagtctag	gaatggagtc	tccactgca	acttgtgaac		
				tccatcatc	atccaggact	gagatgcaaa	tgtcacagta	atgcaagcaa	agtatcaaa		
				aaaaacaatg	aaattgacct	agttcagata	cagggtgctc	cttgtcaata	ctgagccatt		
				tatacctttg	aaatattaaa	atcactgtca	atattttat	tttaactct	ggattttgaa		
				ttagattatt	tctgtatttg	gctatggatc	gtatttttaa	tttttttaa	tttcagtc		
				ttctgatgtt	actgagatgt	tttaccatcc	ttacaatgta	aaccacatga	actacgtgac		
				ctctgcaaga	caaaagcggt	ttctaataga	gagattagta	aatatgtgaa	gaaaaagacc		
				tgcaatttggc	aggaagatgt	atgctttgaa	tgcaaaagaa	atttagagtc	aatttgc		

388	14641	Calcitonin Receptor	NP_001733.1	aaacattaca tgcacagctt gggtttggac aagcctgtcc attgggcagg acctagctgt tgtaaagaat tgggtctaat gttgaatgta ttttggttgc tgaatgttat aaactgagag gtacaaaaga atctatcact aaaaattttt acaaaactgc caaaaatata attcttagtg gaagacaata ctccctttta agagagtttg ccactccctt aaactccagg atttataaag caaatactc caaggtttat aaagcagatt acctcttgcc cttaggtgtct atctagcagt aaaaataaaa tttgttgaat attggtaat aaagactcc acataagtc attaactgct ttccacccag cttcaaaagt taaaagagc tcaggctttt ccaggaaagt ccaggagggc taattagaaa tcaacttgtg gttgaccgct tgtttctgtt tattacaaa caggagggga aaaaattaac tgcctccaat ttaaccataa atcaattcat gtttaacgtt tctcattaaa atccagtatt atattatcat atctctctt acctccagt ataagatttt tgaataatcct gaataaacca gtatcgttac tggcaactga aattaatttg tgaatttga acagfaatca gagttaccat tatttaattt gtatgtaaa tgaggaggta cattgaaacc ctccaatct ccagctctcat ctatgtcata ttttgccact gcctttcaga agtgatttag ttgtgaaaag ataataaatt gattgttat gttacatat ttagcgacc cagagaaaa taatatatt tctacagaga aaatgaattt gggatactaa agtagttaa gtctcctta ctgaatgtaa gggggggatc gaaaagaagg tatttttcca atcagagtgt tatgtagtat tgttctattt ttgtttacaa acatggaaaa cagagtattt ctggcagctg tggtaacaaat gtgataatat attgtctaaa tattttagat gttattatgc taatatagta ggggttgaag aaaaacaaat agcttattat agaattgcac atagtctgc ccaaatattg tgaatgctt atgctgtgt atatgtataa ataatcacag agtacgttaa aagcaaaaag atgtatatgt gcataattt ctaaaagaaat atattattca tcttttcatt c	NP_001733.1	YVGRKKND AQYKCYDRMQ P	Homo sapiens
389	16041	C-C Chemokine Receptor 6	NM_004367	caaacgttcc caaatcttc cagtcggctt gcagagactc ctgtctccca ggagataacc A agaagctgca tcttattgac agatggtcat cacattggtg agctggagtc atcagattgt gggggccgga gtgagctga agggagtga tcagagact gcctgagagt cactctact ttctgctac cgctgcctgt gactgaagg gctgaacca tacactcctt ttctacaaac cagcttgcat tttttctgcc cacaatgagc ggggaatcaa tgaatttcag cgatgttttc gactccagtg agattattt tbtgtcagtc aatacttcat attactcagt tgattctgag atgttactgt gctccttga ggaggtcagg cagttctcca ggctatttgt accgattgac tactccttga tctgtctct ttggcctcctg gggaatttc tgggtgtgat cactttgct ttttataaga agggcaggtc tatgacagac gtctatctt tgaacattgc cattgcagac atcctctttg tcttactct ccaattctgg gcagtgagtc atgccactgg tgggtgggtt ttcagcaatg ccacgtgcaa gttgctaaaa ggcattctatg ccatcaactt taactgcggg atgctgctcc tgacttgcac tagcatggac cggatcatcg ccattgtaca ggcgactaag	NM_004367	ESSA	Homo sapiens

tcattccggc tcgatccag aacactaccg cgcacgaaaa tcactgcct tgttgtgtgg
gggtgtcag tcatactc cagctcaact ttgtcttca accaaaaa caacaccaa
ggcagcagtg tctgtgaacc caagtaccag actgtctcgg agccatcag gtggaagctg
ctgatgttg ggcttgagct actctttggt ttctttatcc ctttgatgtt catgatattt
tgttacagct tcattgtcaa aaccttggt caagctcaga attctaaaag gcacaaagcc
atccgtgtaa tcatagtgt gtgtcttggt ttctgtgctt gtccattcc tcataacatg
gtcctgcttg tgacggctgc aaatttggt aaatgaacc gatctgcca gagcgaaaag
ctaattggct atacgaaaac tgtcacagaa gtccgtgctt tcctgcactg gtgctgaac
cctgtgctct acgcttttat tgggcagaaag ttcagaaact acitcttgaa gatcttgaag
gacctgtggt gtgtgagaag gaagtacaag tcctcaggct tctcctgtgc cgggaggtac
tcagaaaaa ttctcggca gaccagtgc accgcagata acgacaatgc gtccctcctc
actatgtgat agaaagctga gtctccctaa ggcattgtgt aaacatactc atagatgtta
tgcaaaaaa agtctatggc caggtatgca tggaaaatgt gggaattaa caaatcaag
caagcctctc tcctgctgga cttaacgtgc tcattggctg tgtgactctc tcagggtggg
gtgtctctg ataggtagca ttctccagca ctttgcaagg aatgttttgt agcttaggg
tatatatccg cctggcattt cacaacaag ccttgggaa atgctgaatt aaagtgaatt
gtgacaaat gtaaacattt tcagaaatat ccatgaagcg gtccagatc acagtgtctt
ttggttacag caaaaaatga tggcagtgtt ttgaaaact aaacagaaa aaaaaatgga
agccaacaca tcaactcatt taggcaaatg tttaaacatt ttatctatc agaatttta
ttgtgtctg ttataagcag caggattggc cggctagtgt ttcctctcat tccctttga
tacagtcaac aagcctgacc ctgtaaaatg gaggtgaaa gacaagctca agtgtcaca
acctggaagt gcttcggga gaaggggaca atggcagaac aggtgttgtt gacaattgtc
accaattgga taaagcagct caggttgtag tgggacatta ggaactgtc ggttgtctt
gatttccctg ggagctgtt tctgtctga gtgtctcttg tctaaacgtc cattaagctg
agagtgtat gaagacagga tctagaataa tctgtctcac agctgtgctc tgagtgccta
gcggagtcc agcaacaaa atggactcaa gagagatttg attaatgaat cgtaatgaag
ttgggtttta ttgtacagtt taaaatgtta gatgttttta atttttaaa taaatggaat
actttttttt tttttaaaga agcaacttt actgagacaa tgtagaaga agtttgttc
cgtttcttta atgtgttga agagcaatgt gtggtgaaag acttttgtta tgaggagctg
cagatttagt aggggacagc tggaaattatg ctggtctctg ataattatt taaagggtc
tgaaatttgt gatggaatca gattttaaca gctctcttca atgacataga aagttcatgg
aactcatgtt tttaaaggc tatgtaata tatgaacatt agaaaaatag caacttgtt
tcaaaaaa caaacacatg ttaggaaagt actgtcatg gctaggcatg gtggtcaca
cctgtaatcc cagcattttg ggaagctaaag atgggtggat cacttgaggt caggagtgtg
agaccagcct ggccaacatg gcgaaacccc tctctactaa aaatacaaaa atttgccagg
cgtggtggcg ggtgcctgta atcccagcta ctgtggaggc tgaggcaaga gaatcgttg
aacccaggag gcagaggttg cagtgcaggc agatcgtgctc attgcactcc agcctgggtg
acagagcag actccatctc aaaaaaaa aaaaaaaga ctccatctca aaaaaaaa
aaaaaaaa aggaagaac tgtcatgtaa acataccgac atgtttaaac ctgacaatgg
tgttatgtga aactttatat tgttcttgta agctttaact atatctctc ttaaatgca
aaataatgct ttaagattca aagtctgtat ttttaaagca tggctttggc tttgcaaaat

390	16041	C-C Chemokine Receptor 6	NP_004358.1	<p> aaaaaatgtg tttgtacat gaagtaggaa tcgtatttca gcttcaaggt tcagattgag ggcccaatg tttggagagg atggtattca ggctttctca tgccttcaa atctgttagc gttgactct agaaatcaaa gcaaaaggagt ggttaccag acacttcttt tgggtgtgac aatgcgctga tgtgatctat gaagatgatt catgcttgaa aactagcaca gaaacatctt gcttatttgc caaagctggg agatgagctt ctctgcataa tttaaatggt cagataaatg aagctgactt atttaagcaa taactttta aacattttag ctaagatgta taaaaatggt tccaaaatat accacatact ttattttctt ttaaatgtag tacattaggt tacatcattt ttcttgctgt cttgggcatac aaaaacaggtg ccatggtaac ctgacactct caggagacat taagatagaa ggggctgttc ttcaagtgtt cccattgatt ctcccataat ctttttgctc tcaggctctg gccgtctctt cctgagcctt aactgtgt MSGESMNFSD VFDSESDYFV SVNTSYYSVD SEMLLCSLQE VRQFSRLFVP IAYSLLICVFG P LLGNILVVIT FAFYKARSM TDVYLLNMAI ADILFVLTLF FMAVSHATGA WFFSNATCKL LKGIYAINFN CGMLLTCTIS MDRYIAIVQA TKSFRLRSRT LPRTKIICLV VMGLSVIISS STFVFNQKYN TQGSVDCEPK YQTVSEPIRW KLIMLGLELL FGFPIPLMFM IFCTYTFIVKT LVQAQNSKRH KAIRVIIAV LVFLACQIPH NMVLLVTAAN LGRNMRSCQS EKLIGYTKTV TEVLAFLHCC LNPVLYAFIG QKFRNYFLKI LKDLWCVRRK YKSSGFSCAG RYSENISRQT SETADNDNAS SFTM </p>	Homo sapiens
391	16599	Smoothed	NM_005631	<p> atggcgcgtg cccgccagc gggggggcgg gagctccgc tctgtggggt gctgctgctg A ctgctgctgg gggaccgggg cggggggggg gcctcgagcg ggaacgcgac cgggcctggg cctcgagcgg agggcggggag cgcgagagg agcgcggcgg tgactggccc tcgcgcgcgg ctgagccact gggcgcgggc tgccccctgc gagcgcgtgc gctacaaagt gtgcctgggc tcggtgctgc cctacggggc cactccaca ctgctggcgg gagactcga cccccaggag gaagcgacg gcaagctcgt gctctggtcg ggcctccgga atgcccccg ctgctgggca gtgatccagc cctgctgtgtg, tgccgtatac atgcccagt gtgagaatga cgggtggag ctgccagcc gtaccctctg ccaggccacc cgaggccct gtgccatcgt ggagaggagg cggggctggc ctgacttctt gcgctgcact cctgacgcgt tccctgaagg ctgcacgaat gaggtgcaga acatcaagt caacagtcca ggcagtgcg aagtgcctt ggttcggaca gacaaccca agagctggtg cgaggacgtg gagggctgcg gcattccagt ccagaaaccg ctcttcacag aggctgagca ccaggacatg cacagttaca tcgcggcctt cggggccgctc acgggctctt gcacgtctt caccctggc acattcgtgg ctgactggcg gaactcgaat cgctaccctg ctgttattct ctctacgtc aatgcgtgct tctttgtggg cagcattggc tggctggccc agttcatgga tgggtcccg cgagagatcg tctgcccgtc agatggcacc atgaggcttg gggagccca ctcacatgag actcttctt gctcatcat ctttgctc gtgtactacg cctgtagtgc tgggtgtggt tgggtgtggg tctcacta tgctggcacc acttcttca aagccctggg caccacctac cagctctct cgggcaagac ctctacttc caccgtctca cctggtcact cccctttgtc ctactgtgg caatccttgc tgtggcgag gtggatgggg actctgtgag tggcatttgt tttgtgggtt acaagaacta ccgataccgt gcgggcttctg tgetggccc aatcgccctg gtgctcatcg tgggaggcta ctctctc gcaggagtca tgactctgtt ctccatcaag agcaaccacc cgggctgct gagtgagaag cgtgccagca agatcaacga gacctgctg cgctcgggca tttttggctt cctggcctt ggctttgtgc tcattacctt cagctgccc ttctacgact tcttcaacca ggctgagtgg </p>	Homo sapiens

392	16599	Smoothened	NP_005622.1	actggttcgg	ctctagg	gagcgagct	tcggggacta	tgtgttatgt	caggccaatg	tgaccatcgg	gctgccccacc
				aaagagcccc	tcctgactg	tgagatcaag	aatcgccoga	gccttctggt	gccttctggt	gccttctggt	gccttctggt
				aaactgtttg	ccatgttttg	aactggcatc	ccatggagca	cctgggtctg	gaccaaagcc	gaccaaagcc	gaccaaagcc
				acgtgtctca	tcctggagcg	tacctgtgtc	aggttgactg	ggcagagtga	cgatgagcca	cgatgagcca	cgatgagcca
				aagcggatca	agaagagcaa	gatgattgcc	aaggccttct	ctaagcggca	cgaactcctg	cgaactcctg	cgaactcctg
				cagaacccag	gccaggagct	gtccttcagc	atgcacactg	tgteccacga	cgggccccgtg	cgggccccgtg	cgggccccgtg
				gcgggcttgg	cccttgacct	caatgagccc	tcagctgatg	tctctctctg	ctgggccccag	ctgggccccag	ctgggccccag
				catgtcacca	agatggtggc	tcggagagga	gcataactgc	cccaggatat	tctgtgtcac	tctgtgtcac	tctgtgtcac
				ccgtgtggaa	ctccagtggc	cccagagga	caagccaacc	tgtgtgtggt	tgaggccagag	tgaggccagag	tgaggccagag
				atctccccag	agctgcagaa	gcgctggggc	cggaagaaag	agagagggaa	gaggaagaag	gaggaagaag	gaggaagaag
				gaggtgtgcc	cgtcggcgcc	gccccctgag	cttcaccccc	ctgcacctac	ccccagtacc	ccccagtacc	ccccagtacc
				attctctgac	tgcctcagct	gccccggcag	aaatgcctgg	tggtgtcagg	tgctgtggga	tgctgtggga	tgctgtggga
				gctggggact	cttgccgaca	gggagcgtgg	acctgtgtct	ccaacccatt	ctgccccagag	ctgccccagag	ctgccccagag
				ccagtcctcc	ctcaggatcc	atttctgcc	agtgcacggc	ccccctggcc	atgggtctcat	atgggtctcat	atgggtctcat
				ggccgccgac	agggcctggg	gcctattcac	tcocgcacca	acctgatgga	cacagaactc	cacagaactc	cacagaactc
				atggatgcag	actcggacct	ctgagcctgc	agagcaggac	ctgggacacg	aaagagagga	aaagagagga	aaagagagga
				accaataacct	tcaaggctct	tcttctctac	cgagcatgct	tccttaggat	cccgctcttc	cccgctcttc	cccgctcttc
				agagaacctg	tggggtgact	gcctctccga	gagagttctg	gatgtctggc	tcaaagcagc	tcaaagcagc	tcaaagcagc
				aggactgtgg	gaaagagcct	aacatctcca	tggggaggcc	tcacccacag	gacaggcccc	gacaggcccc	gacaggcccc
				tggagctcag	ggtccttgtt	tctgccctgc	cagctgcacg	ctggttggca	gcactctgctc	gcactctgctc	gcactctgctc
				catcggggca	gggggtatgc	agagcttctg	gtggggcagg	aacgtatgta	ggcagagtga	ggcagagtga	ggcagagtga
				cagttccccag	agtgggcttt	ggtggccagg	gagggcagct	agcctatgtc	tggcagatga	tggcagatga	tggcagatga
				gggctggctg	ccgttttctg	ggctgatggg	tgcccccttc	tggcagcttc	agtcctccaa	agtcctccaa	agtcctccaa
				tgttgactgt	gtcattagtc	ctttgtctaa	gtagggccag	ggcacccgat	tcctctccca	tcctctccca	tcctctccca
				ggtgtttgtg	gggctgggaag	gacctgtctc	cacaggggcc	atgtctctct	ttaatatggtg	ttaatatggtg	ttaatatggtg
				gcactacccc	aaacccatct	tttgttctcc	tatatctctc	ttctctctct	ccatttcagt	ccatttcagt	ccatttcagt
				tcagtttcag	cgggtgccaac	ctctttgcgt	ttcttttttg	ttgatgagga	cccagagctg	cccagagctg	cccagagctg
				ctgcaacacac	tcacctctaa	ccccctcccc	tcgctgtctg	gccccatctc	cacaggagag	cacaggagag	cacaggagag
				actggttcgg	ctctagg						
				maaaarpagp	elplllglll	lllgdpgrga	assgnatpgg	prsaaggsarr	saavtgbppp	saavtgbppp	saavtgbppp
				lshcgraapc	eplrynvclg	svlpygatst	llagdsdsqe	eahgklvls	glrnaprcwa	glrnaprcwa	glrnaprcwa
				viqpllcavv	mpkcndrive	lpsrtlqat	rgpcalvere	rgwpdflrct	pdrrfpectn	pdrrfpectn	pdrrfpectn
				evqnikenss	gqcevpilvrt	dnpskswyedv	egcgicqcnr	lftaeahqdm	hsyiaafgav	hsyiaafgav	hsyiaafgav
				tgltctltla	tfvadwrnsn	rypavilfyv	nacffvgsig	wlaqfmdgar	reivcradgt	reivcradgt	reivcradgt
				mrlegeptsne	tlscvltfvi	vyvalmagvv	wfvltiyawh	tsfkalgdtg	qplscktsyf	qplscktsyf	qplscktsyf
				hlltwsllpfv	ltvailavaq	vgdsvsgic	fvgyknyrry	agfvlapiql	vlivgyfyli	vlivgyfyli	vlivgyfyli
				rgvmtlfsik	snhpgllese	aaskinetml	rlgigflaf	gfvltfscf	fydfenqae	fydfenqae	fydfenqae
				ersfrdyvlc	qanvtiglpt	kqipdceik	nrpsllveki	nlfamgtgi	amstvwmtka	amstvwmtka	amstvwmtka
				tliliwrrtwc	rltgqsddep	krikkskmia	kafsrkrell	qnpqoelsf	mhtvshdgpv	mhtvshdgpv	mhtvshdgpv
				aglafdlnep	sadvssawaq	hvtkmvarrg	ailpqdisvt	pvatpvpee	qanlwlveae	qanlwlveae	qanlwlveae
				ispelqkrlg	rkkkrrkrkk						

393	17250	G Protein- Coupled Receptor GPR45	NM_007227	AGDSCRQGAW TLVSNPFCPE PSPPQDPFLP SAPAPVAWAH GRRQGLGPIH SRTNLMDEL MDADSDF	atggcctgca acagcacgtc ccttgaggct tacacatacc tgctgctgaa caccagcaac A gcctcagact cggggtccac ccagttgccc gcacccctca ggatctcctt ggccatagt atgctgctga tgaccgtggt ggggttcctg ggcaacactg tggtctgcat catcgtgtac cagaggccgg ctatgcgtc ggccatcaac ctgctgctgg ccacccctggc cttctccgac atcatgtgt cctctgtgt catgcccttc accgcctca cctcatcac cgtgcgtgg cactttgggg accatttctg ccgcctctca gccacgctct actggttttt tgctctggag ggcgtggcca tcctgctcat catcagcgtg gaccgcttc tcatactcgt ccagcgccag gacaaagtga acccgccag ggccaaagggt atcatcgcg tctcctgggt gctgtccttc tgcatcgcgg ggccctcgt cagggctgg acgctggtgg aggtgccggc gggggcccca cagtgcgtgc tgggtacac ggagctccc gctgaccgg catacgtggt cacttggtg gtggccgtgt tcttcggcc ctttggcgtc atgctgtgc cctacatgtg catcctcaac acggtccgca agaagccgt gcgctgac aaccagtcgg acagcctgga cctgcggcag ctcacaggg cgggctg cgcctgcag cggcagcaac aggtcagcgt ggacttgagc ttcaagacca aggccttcac caccatcctg atcctctcg tgggttctc cctctgctg ctgccccact ccgtctacag cctcctgtct gtgttttagc agcgtttta ctgcggttc tccttctacg ccacagcac ctgcgtcctg tgggtcagtt acctcaagtc cgtcttcaac cccatcgtct actgctggag aatcaaaaaa ttccgcgagg cctgcataga gttgctgcc cagaccttc aaatcctccc caaagtgcct gagcggatcc gaaggagaat ccagccaagc acagtatacg tgtgcaatga aaacagctct gcggtttag MACNSTSLEA YTYLLNTSN ASDSGSTQLP APLRISLAIV MLMTVVGFL GNTVVCIIIV P QRPAMRSAIN LLATLAFSD IMLSLCCMPF TAVTLITVRW HFGDHFCLRS ATLYWFFVLE GVAILLIISV DRFLIIVQRQ DKLNPRRAKV IIAVSWLSF CIAGPSLTGW TLVEVPARAP QCVLGYTELP ADRAVWVTLV VAVFFAPFGV MLCAYMCILN TVRKNVAVRH NQSDSLDLRQ LTRAGLRRLQ RQOVSVSDL S FTKAFTTIL ILFVGFSLCW LPHSVYSLLS VFSQRFYCGS SFYATSTCVL WFSYLSKSVFN PIVYCWRIKK FREACIELLP QTFQILPKVP ERIRRIQPS TVYVCNENQS AV	Homo sapiens
394	17250	G Protein- Coupled Receptor GPR45	NP_009158.1	ggtcttatga gctgctattg aacacggcag agcctggtgg tgacctgcac acaggagccc A tccagtcagt actgattgaa ttactcaagg ctgcctctct gcaagtgtga gcactacagg acgtcgggac tgggcatttc ctccaacat gccgcceact gcctctccg agccactgc cactgaggat gccgattctg agaatagcag cttctattac tatgactacc tggatgaagt ggccttcctg ctctgcagga aggatgcagt ggtgtccttt ggcaagtct tctccccagt cttctatagc ctgatttttg tgttggcct cagcgggaac ctcttcttc tcatggtctt gtcccggtac gtgcctcgca ggcggatggt tgagatctat ctgctgaatc tggccatctc caacctctg tttctggtga cactgccctt ctggggcact tccgtggcct ggcatgggt cttcgggagt ttcttgtga agatggtgag cactcttat actattaaact ttacagtgg catcttttct attagctgca tgagcctgga caagtacctg gagatcgttc atgctcagcc ctaccacagg ctgaggaccc gggccaagag cctgctcctt gctaccatag tatgggctgt gtccctggcc gtctccatcc ctgatatggt ctttgtacag acacatgaaa atcccaaggg tgtgtggaac tgccacgcag atttcggcgg cagtgggacc atttgggaagc tcttctccg	Homo sapiens	
395	17345	G Protein- Coupled Receptor D6	NM_001296			Homo sapiens

396	17345	G Protein- Coupled Receptor D6	NP_001287.2	cttccagcag aacctoctag gggtttctct tccactcctt gccatgatct tcttctactc ccgtattggt tgtgtcttgg tgaggctgag gcccgcaggc cagggcggg ctttaaaaa agctgcagcc ttggtggtgg ccttctctgt gctatgttcc ccatacaatc tcaccttgtt tctgcatacg ctgttgacc tgcaagtatt cgggaactgt gaggtcagcc agcatctaga ctacgcactc caggtaacag agagcatgc cttccttcac tgctgctttt ccccatcct gtatgcttc tccagtccac gcttcgcca gtacctgaag gcttctctgg ctgcccgtgt tgatggcac ctggcacctg gcactgcca ggcctcatta tccagctgtt ctgagagcag catacttact gcccagagg aaatgactgg catgaatgac cttggagaga ggcagtctga gaactacct aacaaggagg atgtgggaa taaatcagcc tgagtgaacca aattttggtc tggtgggac agatgggaa cagctcaatt ggggtgccac tcaaatgtct c tsgnllllmv lrryvrprrm veyllnlai snllflvtlp fwgisvawhw vfgsfckmv stlytinfys giffiscmsl dkyleivhaq pyhrlrtrak slllativwa vslavsipdm vfvtthenpk gvnwchadfg ghgtiwnklfl rfqonllgfl lpllamiffy srigcvlvrl rpagqgralk iaalwvaff vlwfpynltl flhtlldlqv fgncvsvqhl dyalqvtesl aflhccfsp lyaesshrfr qylkaflaav lgwhtlapgta qaslsccses siitaqeemt gmndlgerqs enypnkedvg nksa	Homo sapiens
397	17335	Gaba (b) Receptor 1	NM_001470	cgtccccgc tccgtggct gcccgcgcc cggggaagaa gagacagggg tggggttgg A gggaagcgag agaggagggg agagaccctg gccagctggg agcttgatt cgaggggagg agggaacgga ggaggagaaa ggtggaggag agggagggg gaggcgggg caggcgccg ggcctggggc ctggagccc ggggagagcc ggggagcgg cgcgcggcg cgagatgttg ctgctgtgt tactggcgc actctctc cgcgcccg ggcggggcg ggcgcagacc cccaacgcca ctcagaagg ttgccagatc atacaccgc cctgggaagg gggcatcagg taccggggcc tgactcggga ccaggtgaag gctataact tctgcccagt ggaactatgag attgagtatg tgtgccggg ggagcgag gtggtgggc ccaaggtccg caagtgcctg gccaacggct cctggacaga tatggacaca ccagccgct gtgtccgaat ctgctccaa tcttattga cctgggaaa tgggaagggt ttctgacgg gtggggacct ccagctctg gacggagccc ggttgattt ccggtgtgac ccgacttcc atctggtgg cagctcccg agcatctgta gtcagggcca tggagacc ccaagcccc actgccaagt gaatcgaacg ccacactcag aacggcgcg agtgatcac ggggaactgt tccccatg cgggggctgg ccagggggc aggcctgcca gcccgggtg gatagcgc tggagagcgt gaatagccg agggacatcc tgcggacta tgagctcaag ctcatccacc acgacagcaa gtgtgatcca ggccaagcca ccaagtacct atatgagctg ctctacaacg acctatcaa gatcatcctt atgcttggt gtagctctgt ctccacgtg gtggtgagg ctgtaggat gtggaacctc attgtgcttt cctatggctc cagctacca gccctgtcaa accggcagcg ttccccact ttcttcgaa cgcaccatc agccacact cacaaccta cccgcgtgaa actctttgaa aagtggggct ggaagaagat tgctaccatc cagcagacca ctgaggtctt cacttggact ctggacgacc tggaggaaag agtgaaggag gctggaattt agattacttt ccgccaagt ttcttctcag atccagctgt gcccgtcaaa aactgaaag ccaggatgc ccgaatcatc gtgggacttt tctatgagac tgaagcccg aagtttttt gtgaggtgta caaggagcgt ctctttggga agaagtacgt ctggttctc attggttggt atgctgacaa ttggttcaag	Homo sapiens

atctacgacc cttctatcaa ctgcacagtg gatgagatga ctgaggcggt ggagggccac
atcacaaactg agattgtcat gctgaatcct gccaatacc gcagcatttc caacatgaca
tcccaggaaat ttgtggagaa actaaccaag cgactgaaa gacacctga ggagacagga
ggcttccagg aggcaccgct ggccatgat gccatctggg ccttggcact ggccctgaac
aagacatctg gaggaggcgg ccgttctggt gtgcgcctgg aggacttcaa ctacaacaac
cagaccatta cggaccaaact ctaccgggca atgaactctt cgteotttga ggtgtctct
ggccatgttg ttgtgatgc cagcggctct cggatggcat ggacgcttat cgagcagctt
cagggtggca gctacaagaa gattggctac tatgacagca ccaaggatga totttcctgg
tccaaaacag ataatggat tggagggtcc ccccagctg accagacctt ggtcatcaag
acattccgct tccgtgtcaca gaaactcttt atctcgtct cagtctctc cagcctgggc
attgtcctag ctgttgtctg tctgtccttt aacatctaca actcacatgt ccgttatatc
cagaactcac agcccaacct gaacaacctg actgctgtgg gctgtcact ggcttagct
gctgtcttcc cctbggggct cgatggttac cacattggga ggaaccagtt tctttcgtc
tgccaggccc gcctctggct cctgggcttg ggcttaagt tgggctacgg ttccatgttc
accaagattt ggtgggtcca cagggtcttc acaagaagg aaaaaagaa ggagtggagg
aagactctgg aacctggaa gctgtatgcc acagtgggc tctggttgg catggatgtc
ctcactctg ccactctgga gatcgtggac cctctgcacc ggaccattga gacatttgc
aaggaggaaac ctaaggaaaga tattgacgtc tctattctgc cccagctgga gcattgcagc
tccaggaaaga tgaatacatg gcttggcatt ttctatggtt acaagggtt gctgtgctg
ctgggaatct tccctgtcta tgagaccag agtgttcca ctagaagat caatgatcac
cgggctgtgg gcattggctat ctacaatgtg gcagtctgt cctcatcac tgcctcgtc
accatgattc tgtccagcca gcaggatgca gccttgcct ttgctctct tgccatagtt
ttctcctct atatacctct tgtgtgtctc ttgtgccc agatgcgag gctgatcacc
cgaggggaat ggcagtcgga ggcgcaggac accatgaaga cagggtctc gaccaacaac
aacgaggagg agaagtccc gctgttggag aaggagaacc gtgaactgga aaagatcatt
gctgagaaag aggagcgtgt ctctgaactg cgccatcaac tccagtctcg gcagcagctc
cgctcccggc gccaccacc gacacccca gaacctctg ggggcctgcc caggggaccc
cctgagcccc ccgaccggct tagctgtgat gggagtctgag tgcatttgc ttataagtga
ggtaggggtg agggaggaca gcccagtgg gggagggaaa ggagagggg aaggcaggg
gactcaggaa gcagggggtc cccatccca cctgggaaaga acatgctatc caatctcatc
tcttgtaaat acatgtcccc ctgtgagttc tgggtgatt tgggtctctc ataccttgg
gaaacagacc ttttctctc ttactgcttc atgtaatttt gtatcacctc ttcacaattt
agttcgtacc tggcttgaag ctgctcactg ctacacgct gcctcctcag cagcctcact
gcattttct ctctccatgc aacacctct tctagtacc acggcaacc ctgcagctcc
tctgcttttg tgctctgttc ctgtccagca ggggtctccc acaagtgtct ctttccacc
caaaggggcc tctcttttc tccactgtca taactcttt ccatcttact tgccttcta
tactttctca catgtggctc cccctgaatt ttgtctctt tgggagctca ttcttttcg
caaaggctcac atgtccttg cctctgctct gtgcactcac gctcagcaca catgcacct
cccctctct cgtgtgccc actgaacatg ctcatgtga cacacgctt tccggtatgc
tttcttcatg ttcagtcaca tgtgtctctg ggtgcccctg attcacagct acgtgtgccc
ctctcatggt catgggtctg cccttgagcg tgttgggta ggcagtgtga atttgtctag

398	17535	Gaba (b) Receptor 1	NP_001461.1	MLLLLLLAPL FLRPPGAGGA QTPNATSEGC QIIHPPEWEGG IRYRGLTRDQ VKAINFLPVD P YEIEYVCRGE REVVGPKVRK CLANGSWTDM DTPSRVCVRIC SKSYLTLENG KVFLTGGDLP ALDGARVDFR CDPDFHLVGS SRSICSGQW STPKPHCQVN RTPHSERRAV YIGALFPMSSG GWPGGQACQP AVEMALEDNV SRRDILPDYE LKLIHDSKC DPGQATKYL ELLYNDFIKI ILMPCSSVS TLVAEARMW NLIVLSYGSS SPALSNRQRF PTFERTHPSA TLHNPTRVKL FERGWKKIA TIQOTTEVFT STLDDLEERV KEAGTEIFER QSFSDPAVP VKNLKRQDAR IIVGLFYETE ARKVFEVYK ERLFGKKYVW FLIGWYADNW FKIIDPSINC TVDEMTAEVE GHITTEIVML NPANTRISN MTSQEFVEKL TKRLKRHPPEE TGGFQEAFLA YDAIWAIALA LNKTSGGGR SGVRLEDFNY NNQITDQIY RAMNSSFEG VSGHVFDAS GSRMAWTLIE QLQGSYKKI GYVDSTKDDL SWSKTDKWIG GSPADQTLV IKTRFLSQK LFISVSVLSS LGIVLAVVCL SFNIYNSHVR YIQNSQNLN NLTAAGCSLA LAAVFPLGLD GYHIGRNQFP FVQARLWLL GLGFSLGYS MFTKIWWVHT VFTKKEEKE WRKTLERPKL YATVGLIVGM DVLTLAIWQI VDPLHRTIET FAKEEPKEDI DVSILPQLEH CSSRKMNTWL GIFYGYKGLL LLLGIFLAYE TKSVSTEKIN DHRAVGNAIY NVAVLCLITA PVTMILSSQQ DAAFAFASLA IVFSSYITLV VLFVPMRRL ITRGEWQSEA QDTMKTGSST NNNEEEKSRL LEKENRELEK IIAEKEERVS ELRHQLQSRQ QLRSSRRHPPT PPEPSGGLPR GPPEPPDRLS CDGSRVHLLY K	Homo sapiens
399	17666	Glucagon- Like Peptide 1 Receptor	NM_002062	gaattccggg ttgtgcatc cactctggaa ccgtctgtgt gtggcctgtc ggaatgacat A cgccctcatc agtctccga cgcgttcccg agtggcagc gatggcccag tcctgaactc cccgccatgg ccggcgcccc cggcccgctg cgccttgccg tgctgtgct cgggatgggtg ggcaggggcg gccccggccc ccagggtgcc actgtgtccc tctgggagac ggtgcagaaa tggcgagaat accgacgcca gtgccagcgc tccctgactg aggatccacc tcctgccaca gacttgttct gcaaccggac cttecatgaa tacgcctgct gccagatgg ggagccaggg tegttcgtga atgtcagctg cccctgggtac ctgcccctgg ccagcagtgt gccgcagggc cacgtgtacc ggttctgcac agctgaaggc ctctggctgc agaaggacaa ctccagcctg ccctggaggg acttgtcgga gtgcgaggag tccaagcag gggagagag ctecccgag gagcagctcc tgttcctcta cateatctac acggtgggt acgcactctc ctctctgtct ctgggtatcg cctctgcgat cctctcggc ttccagacac tgcactgcac caggaaactac atccacctga acctgtttgc atcctcatc ctgcgagcat tgtccgtctt cateaggac gcagccctga agtggatgta tagcacagcc gccagcagc accagtggga tgggtcctc tcctacctgg actctctgag ctgcgcgctg gtgtttctgc tcatgcaqta ctgtgtggcg	Homo sapiens

400	17666	Glucagon- Like Peptide 1 Receptor	NP_002053.1	gccaattact actgggctctt ggtggagggc gtgtacctgt acacactgct ggctttctcg gtcttatctg agcaatggat cttcaggctc tacgtgagca taggtgggg tggtccctcg ctgtttgttg tccctgggg cattgtcaag tacctctatg aggacgagg ctgctggacc aggaaactcca acatgaacta ctggctcatt atccggctgc ccattctctt tgccattggg gtgaacttcc tcattcttgt tcgggtcatt tgcatctggt tatccaaact gaaggccaat ctcatgtgca agacagacat caaatgcaga cttgccagt ccacgtgac actcatcccc ctgctgggga ctcattgagt catctttgct tttgtatgg acgagcacgc ccgggggacc ctgcgttca tcaagctgtt tacagagctc tccttaacct ccttcaggg gctgatggtg gccatattat actgctttgt caacaatgag gtccagctgg aatttcggaa gagctgggag cgctggcggc ttgagcactt gcacatccag agggacagca gcatgaagcc cctcaagtgt cccaccagca gctgagcag tggagccacg gcgggcagca gcatgtacac agccacttgc caggcctcct gcaagtga ga ctcacagcgc tgccctcctt ggggtccttg ctgcagcggg gtggccaatc cagctcccc cacaataacc	SLWETVQKWR EYRQCQRL TEDPPPATDL P	Homo sapiens
				FCNRTFDEYA CWPDEPGSF VNVSCPWYLP WASSVPQGHV YRFCTAEGIW LQKDNSSLPW RDLSECEESK RGERSSPEEQ LLFLYIIYTV GYALSFSAIV IASAILLGR HLHCTRNYIH LNLFASFILR ALSVFIKDA LKMMYSTAAQ QHQWDGLSY LDSLSCLRV LLMQYCVAAV YYWLLVEGVY LYTLIAFSLV SEQWIFRLYV SIGWGVPLF VVPWIVKYK YEDEGCWTRN SNMNYWLIIR LPILFAIGN FLIFVRVICI VSKLANILM KYTDIKRLA KSTLTLLPLL GTHEVIFAFV MDEHARGTIR FIKLETELSF TSFQGLMVAI LYCFVNEVQ LEFRKSWERW RLEHLHIQRD SSMKPLKCPT SSLSSGATAG SSMYATCQA SCs		
401	18471	G Protein- Coupled Receptor LOC51210	NM_016372	gccttgaca tggagatgct tagctgaggg ggtggctttg ttaqactatt tgcaggtcgt A gagatagagc ctgagatggg ggaactgggc cctgcctggg ggattgggtc gtgacctgtg tggagcccca cactgagctg cagtgggtgg ggaagggtgg ttacagggggt gctctgtgca gccccctga ttttccctg ggaatccca gtcacaggga aggagggacag tggccacagg cacacagctc actgggcggc tctcactccc ccagggtggt ctgctggcgg gatggacacc ctggaggagg tgacttgggc caatgggagc acagcgctac cccaccctt ggcaccaaac atcagtgctc ctcactgctg cctgctgctg ctctacgaag acattggcac ctccagggtc cggtaactgg acccttctgt gctcattccc aatgtgctct tcctcatctt cctgctctgg aagcttccat ctgctcgggc gaagatccgc atcactcca gcccatctt tatcaccttc tacatccctg tgtttgtggt ggcgctgggt ggcattggcc ggccctgggt atccatgacg gtgagcacct cgaacgctgc aactgttctt gataagatcc tbtgggagat caccgccttc ttcctgctgg ccacagact gagtgtgac atcctgggccc tggccttttg cacctgggag agtaagtcca gcatcaagcg ggtgctggcc atcaccacag tgcgtgccct ggccactact gtcaccacag ggaacctgga gactctgtac cctgatggcc atctctcagc tgaaggacttt aatatctatg gcaatggggg ccgcccagttc tggctgtgca gctcctgctt ctcttctctg gtctactctc tgggtgtcat ccttcccaag accccgtgga aggagcgcat ctcctgctc tctcggagga gcttctactg gtatgggggc atcctggcac tgcctcaacct actgcagggg ctggggagtg tgcgtgctgt cttcgacatc atcgaggggc tctgctgtgt agatgccaca accttctgt actcaagctt cttcgtcccg ctcatctacg tggctttcct ccggggcttc ttcggctcgg agcccaagat cctcttctcc tacaatgccc aagtggacga gacagaggag		Homo sapiens

402	18471	G Protein- Coupled Receptor LOC51210	NP_057456.1	MDTLEEVTWA NGSTALPPPL APNISVPHRC LLLLYEDIGT SRVRYWDL LLIPNVLF LIP P LLWKLP SARA KIRITSSPIF ITFYILVFV ALVGIA RAVW SMTVSTSNAA TVADKILWEI TRFFLLAIEL SVIILGLAFG TWESKSSIKR VLAITTVLSL AYSVTQGTLE ILYPDAHLA EDFNHYGHGG RQFWLVSSCF FFLVYSLVVI LPKTPLEKRI SLPSRRSFYV YAGILALLNL LQGLGSVLLC FDIIEGLCCV DATTFLYFSF FAPLIYVAFL RGFFGSEPKI LFSYKQCQVDE TEEPDVHLPQ PYAVARREGL EAAGAAGASA ASYSSTOFDS AGGVAYLDDI ASMPCHTGTGI NSTDSERWKA INA	Homo sapiens
403	19072	G Protein- Coupled Receptor Ls19072	LG100650	agtgatgagc ggcggctgccc tggcagtgca gtgggctggc tggatgtgg gggcctctcc A ctgctggcca atgctggtgg catctcagc gttggcgcca agcagaagaa gtggaagccc ttggagttcc tgcgtgtgac actcgcggcc accacatgc taaatgtggc cgtgcccac gccacctact cgtggtgca gctgcggcgg cagcgcggc actcagatg gaatgaggt ctctgcaagg tcttcgtgc cactttctac accctaccc tggccacctg tttctctgc acctccctct cctaccaccg catgtggatg gtctgctggc ctgtcaacta ccggtgagca tgtgaagttc tggggttctt ggggttctaa gcaggcgtga aaacaaagac atatctggtg tgccatgcyg cacacaggag tggccacacc tgtggcagtc tgggagggca ggcaggctca ggaggggctg ctgtaagctg ctgggggcat acacgtagct ttgcatgggt agacacaagc agccaataca gaatgcttgg aagagggacg tgtgacaatg ttcacagtat ctcctatgca aggaacaagg ccttgccaca ctggctgtgc catgactatg atatactgg ggtgtgggt gcctgggtgg tgcggtatccc ctacaggctcc ccaggagcct ggggagggccc tgtgggtgac gccagatccc tctgttccac cctgcctcat gccaggctga gcaatgcca gaagcaggcg gtgcacacag tcatgggtat ctggatgggt tcttctatcc tgtcggccct gcctgcccgt ggctggcacg acaccagca gcgcttctac acctatgct gccgcttcat cgtggctgag atcgggctgg gcttggcgt ctgcttctctg ctgctgggtgg gggcagcgt ggcctatggc gtgatctgca cagccatcgc cctcttccag acgctggccg tgcagggtgg gcgccaggcc gaccgcgcg ccttcaccgt gccaccatc gtgggtggag acgcgcaggg caagcggcgc tcttccatcg atgggtcgga gccgcgcaaa acctctctgc agaccacggg cctcgtgacc accatagctc tcatctacga ctgcctcatg ggcttccctg tgcgtgtgg tgacggcgtc gggtagaggg gcctgtctct ggacagccc tggggtgct catactccag gcatacagg gttgagtcct cagacccaat cctttgagat gggtctgac atcgtcccca ttttccagat	Homo sapiens

ttggaacccg	aggttcagag	aggtgtaaag	acctgcctag	agtcagggca	gctgtgtggg
acttgaaccc	acatccggca	actgcagggc	ccaggcccta	gctgtctacag	tgcaagaagag
ttttactccc	ttgcccaagg	cccatTTTT	tgTTTTgtt	ttactttatt	tattttattta
tttttgagac	agagttttgc	tcttgttgcc	caggctggat	gtgcaatggc	acaatctcag
ctcaactgca	ctctgcgctc	ctgggttcaa	gcgagtctcc	tgctcagcc	tccaagttagc
tgggattaca	ggtgcgcgct	ggcacgcgctg	gctaattttt	tttttgtatt	tttagtacag
acaggttttc	acctgttag	tcaggctggt	ctcgaaactc	tgacctcagg	tgatctgccc
atctcagcct	cccaaactgc	taggattaca	agcgtgaacc	atgcatctg	gcctcaaggg
ccggtttgat	cagaggtagg	atagcatacc	catgggtttc	ctggtgggtc	caggtcccaag
gatgtgacaga	gggagctttg	gtgccttagg	taggttaggt	ggggcgcagg	atcaggagac
agagacaaagg	cagggcgggc	ctcaaatgtc	tgttggggag	tgcaacttga	tactaacggc
tggggaaaggc	caaggtgagg	gctgctgtga	gaaaaggcctt	gccgacaaaag	gtctgaggtc
cagagggggt	gcctggggtc	ctcttgggtga	agctggggacc	agcttggccc	aagaatgaag
ctctggactca	gtagccaacc	ctgcccct	gcaggactct	acgcccatcc	ccgaaaggtc
tgcaagtga	cagggagagg	actggggcaa	agaccagcct	gaggggtttc	atccaagcag
caggcaagac	tgcttccct	gagccattgc	agccatagct	gacatgagct	ccagaatggt
gactctggggg	gtggcgacct	cagagtcagg	gcttgcctca	ggaggcagcc	cccatctccc
cacccccagc	aggcctgggt	ctccccagct	aagggtctct	atgtgtacag	tgggggctgg
cagccccggtc	ccgtgca	tggaaggcag	gggctctcatg	aaacagcaga	gaccacaag
gcaactctggg	agcagagtgg	gggcagtgg	gggagagaggc	ggggctggga	gggagtcaga
accacccccg	cgctctttac	ggacggggaa	gaggtgtacag	cttgtggggc	cactccatgc
tgctgttata	aagcgtccgg	agcttccacc	ctctagagca	tgggcctgttc	ttagcccatt
tttccagatga	agaaactgag	ccccaagggg	gtttagcagc	ttcttgaggg	tcacgtggcc
actaaacggc	agaatcaaca	taccacatc	ctcacactt	tcaactttt	gtggcagtea
ctcttaagcatc	actctttggg	acagagcaac	gagggtctatc	ctgggagagg	aggaatgcag
gggagcccaaaa	cagggggtag	ggctgagagg	gcactggcc	gggaatgggg	tggtagaatc
ttgaacaggc	ttgagacctg	gtctctaaag	cctcagtttc	ctcatctcaa	aaaggcgag
ggcgcgcgggc	acagtattc	ataccgttaa	tccagcact	ttgggaggcc	gaggcgagag
ggatctcttaa	gcccaggaga	tggaagctgc	agtgagccat	gattgagcca	ctgcactcca
gcctgggtga	cagaatgaga	ctgtctcaaa	acaaagcggg	gaggaggtgg	taatccatgc
ccccacttctc	tccatggcca	gccagagga	agacagagca	agggcaccca	gtgctgccca
gtagccagggt	agctccccga	agggcgggcc	tcccactgc	acgctccagc	tctttctccc
ccaaaggccc	cttctcctg	gcagataccc	acctgtcaga	cctgccgtac	acatggggag
accgagactc	agggggagct	tggtgtatgg	tggggggttc	tgcaggtgcc	agggcgagcc
ctgtgtgccac	aggtggttag	cttcagagc	ctgcggggccg	acgctcagc	ggcctggatg
gcactctcg	tgctgtgggt	ctccgtggc	caggccctgc	tgctgctgtg	gttctcttgg
gcctgcgacc	gctaccgggc	tgacctcaaa	gctgtccggg	agaagtgc	ggccctcatg
ggcaacgacg	aggagtccaa	cgaatgt			

Accession	Gene	Protein	Species
ENSP00000164265	SDERRLP6SA	G Protein-Coupled Receptor	Homo sapiens
	ATYSVVQJRR		
	NAKQQAHTTV		
	MGIMWVSFIL		
	SALPAVGWHD		
	TSERFYTHGC		
	RFIVAEIGLG		
	FGVCFLLVVG		
	LCKVFEVSTFY		
	TSLSYHRMM		
	VCWPVNYRLS		
	TLTLATCFSV		
	LEFLLCITLAA		
	THMLNVAVPI		
	VGAKQKKWK		
	LIANAWGILS		
	VGWLVCGGLS		

405	19501	Ls19072	G Protein- Coupled Receptor KIAA0758	AB018301	<p> GSVAMGVICT AIALFQTLAV QVGRQADRRRA FTVPTTIVVED AQKRRSSID GSEPAKTSIQ TTGLVTTTIVE IYDCIMGFPPV LVVSFSSSIRA DASAPWMAIC VLWCSVAQAL LLPVFLWACD RYRADLKAVR EKCMAIMAND EESDDG gtgcaagaag aaatagatg ttatgcccac ccaaatatttg gcaaatgaag aaatgaaggt A gatgtggag acaatccctg tatctttgaa ctgctgagct caggtaaatg ttaattggag caaagtagaa tggaaagcagg aggaaaaaat aaatatcca ggaacccctg agacagacat agattctagc tgcagcagat acaccctcaa ggcctgagga acccagtgcc caagcgggtc gtctggaca acagtcacat acacttgtga gtccaatcgt gcttatggag ccagaggcag tgaacaata aagtgacat tcatctctgt ggccaatcta acaataaccc cggacccaat ttctgtttct gagggacaaa acttttctat aaaaatgcat agtgatgtga gtaactatga tgagggttat tggaaacatt ctgctggaat taaaatatac caaagatttt ataccacgag gaggtatctt gatggagcag aatcagctact gacagtcagg acccagacca gggagtggaa tggaaacctat cactgcatat ttagatataa gaattcatat agtatggcaa ccaaagacgt catgtgtcac ccgctgcctc taaagctgaa catcatggtt gatcccttgg aagctactgt ttcatgcagt ggtcccatc acatcaagtg ctgcatagag gaggatggag actacaaagt tactttccat atgggttctt catccctcc tgctgcaaaa gaagttaaca aaaaacaagt gtgctacaaa cacaatttca atgcaagctc agtttcttgg tgtcaaaaa ctgttgatgt gtgtgtcac ttaccaaag ctgctaataa ttcagtttgg agcccatcta tgaagctgaa tctgtgtcct ggggaaaaa tcacatggca ggateccgta atagggtgctg gagagccggg gaaagtcat cagaagctat gccggttctc aaacgttccc agcagccctg agagtcccat tggcgggacc atcaacttaca aatgtgtagg ctccagtggt gaggagaaga gaaatgactg catctctgcc ccaataaaaa gtctgtctca gatgcttaag gcttggatca agagccctc tcaggatgag atgtctccta catacctgaa ggatecttct attagcatag acaaaegga acatgaaatc agctcttctc ctgggagtct gggagccatt ataacatcc ttgatctgct ctcaacagtt ccaacccaag taaattcaga aatgatgacg cactgtctct ctacggttaa tgtcatcctt ggcaagcccg tcttgaacac ctggaaggtt ttacaacagc aatggacca tcagagttca cagctactac attcagtgga aagattttcc caagcattac agtcaggaga tagccctcct ttgtccttct ccaaaactaa tgtgcagatg agcagcacgg taatcaagtc cagccaccaca gaaacctatc acagaggtt ttgtttccca tactttgacc tctggggcaa tgtgttcatt gacaagagct atctagaaaa ctggcagtcg gattcgtcta ttgtaccat ggctttccca actctccaa ccatccttgc tcaggatatac caggaaaaata actttgcaga gagcttagtg atgacaacca ctgtcagcca caatcagct atgccattca ggatttcaat gacttttaag acaatagcc ctccagggcg cgaacgaag ttgtcttctt ggaacttcag gcttgccaac aacacagggg ggtgggacag cagtgggtgc tatgttgaag aagtgatgg ggacaatgtc acctgtatct gtgaccacct aacatcattc tccatcctca tgtccctga ctcccatgat cctagtctc tccctgggaat actcctggat attatttctt atgttgggtt gggcttttcc atcttgagct tggcagcctg tctagtgtg gaagctgtgg tgtggaaatc ggtgaccaag aatcggaact ctatatgcy ccacacctgc atagtgaata tcgctgctc cctctgggc gccaacctt ggttcattgt ggtcgtgctc atccaggaca atcgctacat actctgcaag acagcctgtg tggctggcac ctcttctc accttctct acccagcgt ctctctctgg atgctgacac tgggctctcat gcgttctat ccctgtgtt tcattctgca </p>	Homo sapiens
-----	-------	---------	---	----------	---	--------------

tgaacaagc aggtccactc agaaagccat tgccttctgt cttggctatg gctgccact
 tgccatctcg gtcatacgc tgggagccac ccagcccgg gaagtctata cgaggaagaa
 tgtctgttgg ctaactggg aggaacacaa ggcctctgtg gcttgcga tccagcact
 gatcattgtg gtgtgaaca taaccatcac tattgtgtc atcacaaga tctgagggc
 ttccattgga gacaagccat gcaagcagga gaagagcagc ctgtttcaga tcagcaagag
 cattggggtc ctcacaccac tcttgggct cacttgggt tttgtctca ccaactgtt
 ccaggggacc aacctgtgt tccatcatc atttgcac ctaactgtct tccagggatt
 attcatttta ccttbtgtat gctctggga tctgaagta caggaagctt tgtgaataa
 gtttcatgtg tcgagatggt cttcacagca ctcaaaagta acatccctgg gtccatccac
 acctgtgtt tctatgagtt ctccaatc aaggagatt acaatttgt tggtaaaac
 agaacgttat aatgtttcca cccagaagc aaccagctca tccctggaaa actcatccag
 tgccttctcg ttgtcaact aagaacagga taatccaacc tacgtgacct ccgggggaca
 gtggctgtgc ttttaaaag agatgcttgc aaagcaatgg ggaacgtgtt ctgggggag
 gtttccggga gcagatgcca aaaagacttt ttcatagaga agaggtttc tttgtaaag
 acagaataaa aataatltgt atgttctgt tgttccctc cccctccccc tbtgtgata
 ccacatgtgt atagtattta agtgaactc aagccctcaa ggcacaactt ctctgtctat
 attgtaatat agaatttcga agagacattt tcactttta cacattgggc acaaaagataa
 gctttgatta aagtagtaag taaaaggcta cctaggaaat acttcagtga attctaagaa
 ggaaggagg aaggaggaa ggaagaaagg gagggaaca gggagaaagg gaaaaagaa
 aaaaagagaa agatgaataat aggaacaaat aaagacaaac aacattaaagg gccatattgt
 aagatttcca tgttaatgat ctaataaat cactcagtc acattgaga atttttttt
 taatggctca aaaaaggaaa ctgaaagcaa gtcatgggga atgaatactt tgggcagtat
 ctctctgat tcttcttagc taagaggagg aaaaaaggc tgaataataa gggaggaaat
 tcttcatca gaacgacttc aagtgagaa caataattat aagaatgaa tgaaggaa
 tatgatctc ctgagactaa ctttgtatgt taagtttga actaagtga tbtatctga
 gaggagatata taaaagata tgtcattaga tccaagtgt gataaaattt ttatagttta
 tcagaaaaagc cttatatttt agttgttcc acattttgaa agcaaaaaat atatatattga
 tatacccttc aattgcaaa ttgtatatgt tgcactgaag acagaccctg tcatatattt
 aatggcttca agcaggtact tctctgtgca ttatagata gattttaata atcttatagc
 attgtatatt attattgtctg tbtctactgt tattatatt gtggatactg gcccttggg
 tgttgcatag ctccctatgt attctctgtt tccatcttta agtcccaga ccaatataca
 ttaagagttt tgcattgtct aaattgtgtt tattccaacc agtgggaaa ctcctggaaa
 gaaattttac attcgggtgt tctgtgctcc taatgacact tgacctgtt gaacaaatgg
 cagagccttt ccaaggatt tgattgtttg tgaattatct gcatgtgtgc tttttttgg
 tgtgtatttc attaaaaa ataaatatt atg

406 19501 G Protein-
 Coupled
 Receptor
 KIAA0758
 BAA34478.1
 CKKKIDVMP I QILANEEMV MCDNPNVSLN CCSQNVNWS KVEWKQEGKI NIPGTPETDI P
 DSSCSRVLK ADGQCPSGS SGTVIYTC FISAARGGS ANIKVTFISV ANLITPDPI
 SVSEQNFSI KCISDVSNYD EYWNYSAGI KIYQRFYTR RYLDGAESVL TVKTSTREWN
 GTHYCFRYK NSYSIATKDV IVHPLPLKLN IMVDPLCATV SCGSHHHC CIEEDGDYKV
 TFHMGSSSLP AKEVNNKQV CYKHNFNASS VSWCSKTVDV CCHFTNAANN SVMSPSMKLN
 LVPGENITCQ DPVIGVGEPI KVIQKLCRES NVPSSPESPI GGTITYKCVG SQWEKRNDC
 Homo sapiens

407	21632	G Protein- Coupled Receptor Ls21632	AB040964	<p>ISAPINSLQ MAKALIKSPS QDEMLPTYLK DLSISIDKAE HEISSSPGSL GAINILDLL STVPTQVNSE MMTHVLSTVN VILGKPVLNT WKVLQQWNT QSSQLHSHVE RFSQALQSGD SPPLSFSQTN VQMSSTVIKS SHPETYQORF VEPYFDLWGN VVIDKSYLEN LQSDSSIVTM AFPTLQAILA QDIQENNF AE SLVMTTIVSH NTMPFRISM TFKNNSPSGG ETKCVFNNFR LANNTGGWDS SGCYVEEGDG DNVTICIDHL TSFSIIMSPD SPDPSSLLGI LLDIISYGV GFSILSLAAC LVEAVVWKS VTKNRTSYMR HTCIVNIAAS LLVANTWFIV VAAIQDNRYI LCKTACVAAT FFIHFYLSV FFWMLTLGLM LFYRLFILH ETSSTQKAI AFCLGYGCPL AISVITLGAT QPREVYTRKN VCWLWEDTK ALLAFALPAL IIVVNITIT IWITKILRP SIGDKPKQOE KSSLFQISKS IGVITPLLGL TWGFGLTTFV PGTNLVFHII FAILNVFQGL FILLFGCLWD LKVEALLNK FSLSRWSSQH SKSTSLSGST PVFSMSSPIS RRFNNLFGKT GTYNVSTPEA TSSLENSSS ASSLLN</p> <p>accacctcat cccgtcccta cgccaagtgg tgttccaggg ggatcggtg ccttccagt A gctctgccag ctacctgggc aacgacaccc gcatccgctg gtaccacaac cgagcccctg tggagggtga tgagcaggcg ggcatacctcc tggccgagag cctcatccac gactgcacct tcatcaccag tgagctgacg ctgtctcaca tcggcgtgtg ggcccaaggc gactgggagt gcaccgtgtc catggcccaa ggcaacgcca gcaagaaggt ggagatcgtg gtgctggaga cctctgctc ctactgccc gcgagcgtg ttgccacaa ccgcggggac ttcaggtggc ccggaactct ggctggcatc acagcctacc agtctgctt gcagtatccc ttcacctcag tgccccggg cgggggtgccc ccgggacccc gagcctccc cggtgtgtgac egtgccggcc gctgggagcc aggggactac tcccactgtc tctacacaa gcacatcacc aggtgtgctg acaccttctg gctgatgccc atcaatgctt ccaatggctt gacctggct caccagctgc gcgtgtacac agccgagggc gtagctttt cagacatgat ggatgtagtc tatgtggctc agatgatcca gaaattttt ggttatgtcg accagatcaa agagtggta gagtgtatgg tggacatggc cagcaacctg atgctggtgg acgagacct gctgtggctg gccagcgcg aggacaaggc ctgcagccgc atcgtgggtg ccctggagcg cattgggggg gccgcccga gcccccatgc ccagcacatc tcagtgaatg cgaggaaactt ggcattggag gctacctca tcaagccgca cagctacgtg ggctgacct gcacagctt ccagaggagg gagggagggg tgccggggcac acggccaggga agcctggcc agaaccccc acctgagccc gagccccag ctgaccaagca gctccgcttc cgttgacca ccgggaggcc caatgtttct ctgtcgtctt tccacatcaa gaacagcgtg gccctggctt cccatcagct gccccagat ctattctcat cccttccggc tgccctggct ccccggtgc cccagactg caccctgcaa ctgctcgtct tccgaaatgg ccgctcttc cacagccaca gcaacactc ccgcccctgga gctgctgggc ctggcaagag gcgtggcgtg gccaccccc tcattctcgc aggaaccagt ggctgtggcg tgggaaacct gacagagcca gtggccgttt cgtgcccga ctgggctgag ggaagcgaac ctgtggccgc ttggtggagc caggaggggc ccggggaggc tgggggctgg acctcgagg gctgccagct ccgctccagc cagcccaatg tcagcgcctt gactgccag cacttgggca atgtggcgtt gctcatggag ctgagcgctt tcccaggga ggtggggggc gccggggcag ggctgacccc cgtgggtatac cctgcaagg cctgtgctt gctctgcctc ttcgccacca tcataccta catctcaac cacagctcca tccgtgtgtc ccgaaaaggc tggcacatgc tgctgaactt gtgcttccac atagccatga cctgtgctgt ctttgcgggg ggcatacac tcaccaacta ccagatggtc tggcaggcgg cctgcactac ccttccctat</p>	Homo sapiens
-----	-------	--	----------	---	-----------------

ccacgtgtct ctggatgggc gtgaaggcgc gagtgtctca taaggagctc acctggaggg
caccctcc gcaagaagg gacccgcctc tgcctactcc cagtcctatg ctccgtgtct
ggctgggtgtg gcgtccaagc ctggcgccct tctacatccc tgtggctttg attctgtctca
tcacctggat ctatttctgt tgcgccgggc tacgcttaag ggtctctctg gcacagaacc
ccaaggcggg caacagcagg gctctccctg aggcagggga ggactgagg ggttccacca
ggctcagggg cagcgccccc ctctgagtg actcaggttc ccttctgtct actgggagcg
cgcgagtgg gacgccggg ccccgagg atggtgacag cctctattct cggggagtcc
agctaggggc gctgtgacc acgcacttcc tgtacttggc catgtgggccc tgcgggggctc
tggcagtgtc ccagcgctgg gtgccccggg tgggtgtgac ctgcttgtac ggggtggcag
cctccgcccct ggccctcttc gtcttcact accactgtgc cagcgaggg gacgtgagag
cctcgtggcg cgctgtctgc cccctgctct ctcccgccg ccccatgcc cgcgcccg
cctgccccg cgccgcagag gacggttccc cgggtgttcg ggaggggccc cctccctca
agtctctccc aagcggcagc agcggccatc cgtgtgtctt ggccccctgc aagctcacca
acctgcagct ggccagagt caggtgtgcg agcgggggcg ggcggccggc gggaaggag
agccggagcc ggcgggcacc cggggaaacc tcgcccaccc ccacccaaac aacgtgcacc
acgggctgtc ggcgcaaaag agcggggcca agggacaccc cgcgggggag gcctgcggca
agaaccggct caaggccctg cgccgagc agccccacc acagctacct ggccagcagc cgcacacagc
cggcgccgg cctgcagctg gaaggcgagc ccactgtcac gcgcccgag gccagcgaca
ccagcgccgc gccgtttctt gaggcgggcc ggcagggcca tcgccgctcg taccgctca
acagtctcaa gggcgggcgc gcgtggaga aggagagcca tcgccgctcg accctgatgg
acgccgcag cctaaacggc gccccaagg ggggcaagta cgacgacgtc accctgatgg
gcgcggaggt agccagcgcc ggtgcatga agaccggact ctggaaagag gaaactaccg
tctaaagttgg ggcggcgac gcgtgagac ggcgtggccac gcggtctgtt ccccgctcc
tcggggccct ccaaggtgtc tcgtagtca gcaggttggg ggcagaggag ccatggctg
gaggaagccc acaggcggat gttccccact tccgtccag cccggggcag tctgactgtc
cagacaatcc cagaacacag cataatacat tccgtccag aagggcacag cacatcccag
ggtgccctcc caggaaacgg gaaggcctcc gctgtgtga agggcacag ccatcccag
gtgcacctc ccaagttact cccacccgc ctactgtcca tgcggcctca ctgggggcca
tcagcctcac cagcaaaagc gagatgagag cgtgggaact gtgtctttc ctccctgcc
tctactgatt tcagccagc cctgcctag atcctagtc ctttctctc cagagtgtg
ctggcacgag agctagcca gcacatgaag caggtgatgt taagtcaaa ggtgtgtctt
ttcagatcca ctatgaaag ggggaggggt gggccacgtg aaagcagct ctagacatca
accagtctct ggggagggga gtgggaaccg ggcacaacta ggaacaatgc caccattccc
acaggagtgg tacttaaac agacagcagg gttcagaggt ggacacccg gacaaagctg
aggccctgca cctcaacagc tgaactgccag gtgcctgtgg tgaactgag gggagttag
ggagagggca ggtggaactg ggcagaatc tagtcatgcc ctaaagctag tctgttaac
aatggtgccc cagaaagctg caggtgggtg ttggagagc agttactttt cagttacaag
acctatctc tagtctcag ccttacaaca ccacgggact aaggaagagc acttcttgc
ctccgtaagg ccagaggaag aacctccca atcatttgat ctccagctcc acagttaga
gaaacctaca aaatgtcaaa ccagcttccc gactccccag agctcaagcc aagcccagag

408	21632	G Protein- Coupled Receptor Ls21632	BAA96055.1	<p>gagtggtg ggggtccctgc aggtcatgag gggcctatgc cttactcct tttaaacacc agcacccgtc ttttcccaa cctaaaccca accaccagca tttactaca ggaccaaag gaaaccgagg gaacctggg tcttggaag acaaacagga accaaggtc tgacctaggg ttccctccca gtctccat cactctggc tcatcaccac tgggtccctgt tatttatgct tgcgtcacag agggggaata cccacacaca ctccttgaa agcttggtg acatatgctg gctgctgttt acataattaga agaaaaaaa agctttgtg agcttttgc aatatgctg ggaagggga acacacctg ccaatgctt agcactggag gtttttaata atttgcaaa gccctttg ggagggaat gaagtgcga agaaaaacat gtttttaaga actcgggttt tatacaatag aatgtttct agcagatgcc tctgtttta atatataaa atttgcaaa gccctttg HLIPSLRQV FQGRIPFQC SASYLGNDR IRWYHNRAV EGDEQAQILL AESLIHDCTF P ITSELTLSHI GVMASGEWEC TVSMAQGNAS KKVEIVVLET SASYCPAERV ANNRGDFRWP RTLAGITAYQ SCLQYPTSV PLGGGAPGTR ASRRCDRAGR WEPGYSHCL YTNIDITRVL TEVLMPINAS NATLIAHQLR VYTAEAASF DMDVVVYQAQ MIQFLGYVD QIKELVEVMV DMASNLMLVD EHLMLAQRE DKACSRIVGA LERIGGAALS PHAQHISVNA RNVALEAYLI KPHSYVGLTC TAFORREGV PCTRPSPGQ NPPPEPEPPA DQQLRFRCTT GRPNVSLSF HIMNSVALAS IQLPSPFS LPAALAPPV PDCTLOLIVF RNRGLFHS NTSRPGAAGP GKRRGVATPV IFAGTSGCV GNLTEPVAVS LRHWAEGAG LHVVPVCTA LLLCLFATI COLRSSQPNV SALHCQHLGN VAVLMELSAF PREVGAGAG LHVVPVCTA LLLCLFATI ITYILNHSSI RVSRRQWHML LNLCFHIAMT SAVFAGGITL TNYQMVQAV GITLHYSSLS TLLWVGKAR VLHKELTWA PPPQEGDPAL PTPSPMLRCW LVWRPSLGA YIPVALILLI TWIYFLCAGL RLRGPLAQN LKAGNSRASLE AGEELRSTR LRSGPLLS SGLLATGSA RVGTPGPPED GDSLYSPGVQ LGALVTTHFL YLAWACGAL AVSQRWLPV VCCLYGVAA SALGLFVETH HCARRRDVRA SWRACCPAS PAAPHAPPA LPAAEDGSP VFEGEPPSLK SSPSGSSGHP LALGPCKLTN LQLAQSOVCE AGAAAGEGE PEPACTRGNL AHRHPNNVHH GRRHKSRAG KHRAGEACGK NRIKALRGA AGALELISSE SGLHNSPTD SYLGSSRNSP GAGLQLEGE MLTPSEGST SAAPLSEAGR AGQRRASRD SLKGGGALEK ESHRRSYPLN AASLNGAPKG KYDDVTLMG AEVASGGCMK TGLWKSETTV</p>	Homo sapiens
409	22315	G Protein- Coupled Receptor GPR92/GPR93	NM_020400	<p>atgttagcca acagctcctc accaaacagt tctgttctcc cgtgtcctga ctaccgacct A accacccgcc tgcacttggg ggtctacagc ttggtgctgg ctgccgggct cccctcaac gcgctagccc tctgggtctt cctgcgcgcg ctgcgcgtgc actcgggtgt gagcgtgtac atgtgtaacc tggcgccag cgcactgctc ttcacctct cgtgccccgt tgcgtctctc tactacgcac tgcaccactg gcccttccc gacctctgt gccagacgac gggcgccatc ttccagatga acatgtacg cagctgcatc tctctgagc tcatcaacgt ggaccgctac gcgcacatg tgcacccgt gcgactgagc cactcgccg gcgcccgct ggccgctg ctctgctctg gcgtgtgggc gctcatcctg gtgtttgccc tgcccgccgc ccgctgac aggccctcgc gttgccgcta ccgggacctc gaggtggccc tatgcttga gagcttcagc gacgagctgt ggaagggcag gctgctgcc ctcgtgctgc tggccgaggg gctgggcttc ctgctgcccc tggcgccggt ggtctactcg tcgggcccag tctctggac gctggcgcc cccagaccca cgcagagcca gcggcgccgg agacocgtgc gctctgtct ggctaacctc gtcatcttcc tctgtgtctt cgtgccctac aacagacgc tggcggtcta cgggctgctg cggagcaagc tgggtggcgc cagcgtgcct gcccgccatc gcgtgcgcgc ggtgctgatg</p>	Homo sapiens

410	22315	G Protein- Coupled Receptor GPR92/GPR93	NP_065133.1	Homo sapiens
411	22925	Latrophilin- 3	NM_015236	Homo sapiens

gtgatggtgc tgcgtggcgg cgccaactgc gtgctggacc cgctggtgta ctacttttagc
 gccgagggct tccgcaacac cctgcgcggc ctgggcactc cgcaccgggc caggacctcg
 gccaccaacg ggacgcgggc ggcgctcgcg caatccgaaa ggtccgcgtg caccaccgac
 gccaccaggc cggatgcgc cagtcaggcg ctgctccgac cctccgactc ccactctctg
 tcttcttca cacagtgtcc ccaggattcc gcctctga
 22315 MLANSSSTNS SVLPCEPYRP THRLHLVVS LVLAAGLPIN ALALMWFLRA LRHSWSVY P
 MCNLAASDLL FTLSLPVRLS YYALHWWFP DLLCQTTGAI FQNMVGSCL FMLINVDY
 AAIVHPLRLR HLRRPRVARL LCLGWALIL VFAPVAAVH RPSRCYRDL EVRLCFESFS
 DELWKGRLLP LVLLAEALGF LLPLAAVVS SGRVFTILAR PDATQSQRRR KTVRLLIANL
 VIFLLCFVY NSTLAVYGLL RSKLVAASVP ARDRVRGVLV VMVLLAGANC VLDPLVYFYS
 AEGFRNTLRG LGTPHRARTS ATNGTRAALA QRSERAVTTD ATRPDAASQG LLRPSDSHSL
 SSFTQCPQDS AL
 22925 gaaaaacacg agccgtgttg tatgtggagg ccccggtgtc tgggtgtaat tctcgttct A
 tctgtgaggt gaggcagatg aagccatttc gtggttctgc tgagcatggt cttggcagtg
 ttttgggag catcacatg tgccctttt gttaaactgc tagccgggcc tgccttttgc
 cccgggtca atggtggat tgtggaaact gcaccgcct caggttgtt gagcaactga
 tgggacgac tcaggaccg gcgtttacga aagaaatggt taatttgga aattggagga
 aaaaaacatg gatttttagc aattgaagag caaatgaagg ttccagattt ggcataattg
 tgtttctgtt ttgggaaat tattctttt ttttttaatt tgaagaaaaa tcatcagctc
 tgggaatacag aagagaaact agaaatatac gtattttgtt tcacatttga acagtcattc
 ttgaggaata ctccatacct gagtagacag ccatgtggcc atcgagacta ctaattttca
 tgatgctctt agtccaaata atcattgctt tcagcgtgc cccaattcca atggctgtgg
 tccgcagaga gctatcctgt gagagctatc ctatagagct tgcgtgtcca ggaacagacg
 tcatcatgat agaaagtgc aactatggca ggactgatga caaatattgt gactctgacc
 ctgctcagat ggagaatatc cgatgttata tggcagatgc ctataagatt atgtctcaaa
 gatgcaataa cagaaccccg tgtgcagtgg tggcaggtcc tgatgttttt ccagaccctg
 gtccaggaaac ctataaatac cttgaaagtc agtatgaatg tgcctctac aaagtggaaac
 aaaaagtgtt tcttctgctt ggactactaa agggagtata ccagagtga catttgtttg
 agtccgacca ccaatctggg gcgtggtgca agaccctct gcaggcatct gacaagattt
 attatatgcc ctggactccc tacagaactg ataccctgac tgagtattca tccaaggatg
 acttcattgc tggagagacca actacaacct acaagctccc tcatagggtg gatggcacag
 gattttagt gtatgatga gctttgttct tcaacaaga gcgcaccagg aacatagtaa
 agtttgattt gcgactagg ataaagagtg gagaggctat catagcaaat gccaatacc
 atgataacct ccttaccga tggggaggca aatctgacat agacctggca gtatgagaga
 atggggtatg ggtaattctat gcaacagaaac aaaaacatgg taaaattgtc attagtcatt
 tgaacctta caccctacg atcgaaaggaa catgggatac tgcataatgat aaaaggtcag
 ctccaatgc ctttatgat tgtggaattc tgatgtgtt caaatctgta tatgaggatg
 atgacaatga ggcactatga aataagattg actacattta caacactgac caaagcaagg
 atagtttgggt ggaatgacct ttctctaatt catacagta cattgcagct gtggattaca
 accccaggga caacctactt tatgtatgga ataacatca cgtcgtgaaa tattctttgg
 attttggacc tctgtagatg agatcagggc aggcacatca tggacaagtt tcatacattt

ctccgccaat tcaacttgac tctgagctag aaagacccctc tgttaaagat atctctacca
caggacctct tggcatggga agcactacca ccagttaccac ccttcggacc acaactttga
gcccaggaag gagtaccacc ccgtcagttgt caggagaag aaaccggagt actagtacc
catctccagc tctcgaggta cttgatgaca tgaccacaca ccttccatca gcacgtccc
aaatccagc tctcgaagag agctgtgagg ctgtggaagc ccgagaaatc atgtggttta
agactcgtca aggacagata gcaaagcagc catgcccgc aggaactata ggtgtataca
cttatctatg ccttgtctct gatggaattt gggatcccca aggtccagat ctcagcaact
gttcttctcc ttgggtcaat catataaac agaagttaa atctggtgaa acagtgcca
acattgctag agagctggct gaacagacaa gaaatcactt gaatgctggg gacatcacct
actctgtccg ggcctggac cagctggtag ccctcctaga tttacagctt cggaaactga
ccccaggtg aaaagatagt gctgcccga gtttgaacaa gttcagaaa agagagcgt
cttgcaagc ctatgtccag gcaatggtcg agacagttaa caactcctt cagccacaag
ctttgaatgc atggagagac ctgactacga gtgacagct gcgtgcggc accatgttgc
ttcatactgt ggaggaaaagt gctttttgct tggctgataa ccttttgaag actgacattg
tcaggggagaa tacagacaat attaaattgg aagtggcaag actgagcaca gaaggaaact
tagaagacct aaaatttcca gaaaacatgg gccatgggaag cactatccag ctgtctgcaa
ataccttaaa gcaaaatggc cgaaatggag agatcagagt ggcctttgtc ctgtataaca
acttgggtcc ttattttatc acggagaatg ccagtatgaa gttgggaacg gaagctttgt
ccacaaatca ttctgttatt gtcaattccc ctgttatgac tggtaaacat atcaagcagt
tcagtaacaa ggtttatttg gctgactctg tggttattac tgttaaacat atcaagcagt
cagaggaaaa ttccaacct aactgttcat ttggagacta ctccaagcgt acaatgacag
gttattggtc aacacaaggc tgtcggctcc tgacaacaaa taagacacat actacatgct
cttgaacca cctaacaaat ttgacagtac tgtgggcaca tgtggaagtt aagcacagtg
atgcggtcca tgacctcct ctggatgtga tcacgtgggt tggaaattttg ctgtcccctg
tttgtctcct gattgcatc ttcacatttt gctttttccc cgggctccag agtgaccgta
acaccatcca caagaacctc tgcacagtc tctttgtagc agagctgctc ttccatgtg
ggatcaaccg aactgacca ccaattgctt gtgtgtgttt cgtgcccctg ttacatttct
tcttcttggc tgccttcacc tggatgttcc tggaggggggt gcagctttat atcatgtctg
tggagggttt tgagagtga cattcacgta ggaataactt ttatctggtc ggctatggga
tgccctgact cattgtggct gtgtcagctg cagttagacta caggagttaa ggaacagata
aagtatgttg gctccgactt gacacctact tcatttggag ttttatagga ccagcaactt
tgataattat gcttaatga atcttccctg ggattgcttt atataaaatg ttcatcata
ctgtatact gaaacctgaa tcaggctgtc ttgataacat caactatgag gataacagac
ccttcacataa gtcatgggtt ataggtgcaa tagctctctt ctgctatta ggattgacct
gggccccttg actcatgtat attaatgaaa gcacagtcac catggcctat ctctcacca
ttttcaattc tctacaggga atgtttatat ttattttcca ttgtgtccta cagaagaagg
tacgaaaaa gtatgggaaa acatctggtt ctgaactcc tagtggtcgt tagtggtgaga
gttccatttg ttccaggaaa atctctggtt ctcgaactcc tggacgctac tccacaggct
ccagagccg aatccgtaga atgtggaatg acacgttctg aaagcagtca gactctcct
ttattactgg agacataaac agttcagcgt cactcaacag agagccctac agagagaaa
gtatggggagt aaagctaaac attgcatatc caataggggc ttctgaacaa tgccagggat

acaagtgtca tggatactct accactgaat ggtaaccatg gcaatagtta cagcattgcc cagcattgcc
 agcggcgaat acctgagcaa ctgtgtgcaa atcatagacc gtggtataaa ccataacgag ccataacgag
 accgcccctag agaaaaagat tctgaaggaa ctcactcca actatatccc ttcttacctg ttcttacctg
 acaaacctag agcgtccag tgaacagaaac aggaatctga tgaacaagct ggtgaataac ggtgaataac
 ctgagcagt gagggaaga tgatgccatt gtccctgatg atgccacctc gtttaaccac gtttaaccac
 gaggagagtt tgggcttggg actcattcat gaggaatctg atgtcccttt gctgccccca gctgccccca
 agagtatact ccaccagaaa ccaccagcca caccattata cccagaaggcg gatcccccac gatcccccac
 gaccacagt agagcttttt ccccttgcta accaagagc acacagaaga tctccagtca tctccagtca
 ccccatagag actctctcta taccagcatg ccgacactgg ctggtgtggc cgccacagag cgccacagag
 agtgtacca ccagcaccca gaccgaaccc ccaccggcca atgtgtgtga tgcggaagat tgcggaagat
 gtttactaca aagcatgccc aaacctagc tccagaacc acgtccatca gctgcatact gctgcatact
 tactaccagc taggtcggg cagcagtgat ggattatag ttctccaaa caaagatggg caaagatggg
 accctcccg aggaagttc aaaggaccg gctcattgg tcaatagtct atagaagatg atagaagatg
 acacagaat tggaaaccaac aaactgcta acacctgtt gactgttctg agttgatata agttgatata
 agcagtgtga ataattgtg tactcctaaa tctttatgct gtctctaaa gacaaacaca gacaaacaca
 aactcaga ctttttttt tttaattgga tttttagtc agccagggg agaaagataa agaaagataa
 ctgctaaaa tccctgtac cccatcctt ctgtctctt tgggcctct tgggcctctg ttgaattatg
 attatgttaa tgaacaagat atgaagaaaa gttactctat ttactctctt ttactctctt ttactctctt
 ttgtgtatgt tttaacatct ctgatgtgt gttactctct atctagatg gagtctgca gagtctgca
 aaaggccaga acaattgtct gaaattagta acaatgctg atctagatg gtttttggc actcacaacc actcacaacc
 caacaaaca taagagcaa gcaaaactgt atcacatag gtttttggc actcacaacc actcacaacc
 tgaattcacc acagctgga tagctgtgga aaacaaata aaacaaataa attataatg attataatg
 aaatggaggg gaattctaga attatatgt aaatgatat ttatgattt gctgtattaa gctgtattaa
 ctgatgataa aactaatggc agaaaaagaa gttgagcaat ttctatgtaa tgcacagata tgcacagata
 ctgacattgc acatatagtc tgctttctgt tctctcagaa ttgagtcct gttaatgtag gttaatgtag
 tagaaaaaa aaaaagaaat ttcttttctc tttgtgtctg gttgtgtctg gttgtgtctg gttgtgtctg
 agtaagagag caaagtcttc tctcttctc tctcttctc tctcttctc tctcttctc tctcttctc
 gccttttatt cctttaaaaa ttgcctggc aaaaaataa taaatggaac tatcacttta tatcacttta
 taagaatcat ttcttagtaa tgcaaaaaa ttatttttta caaaaaaa caaaaaaa caaaaaaa
 aattagactt ccttccctca ctatatatct ttatgcagtc agaattattt caacagtgtt caacagtgtt
 ttttgcaaat tagagcagga caaactttta tgtttacagg gcacgtctgt tgaatgcaa tgaatgcaa
 agcatatttg gcaagcagtt catcaccagg acactagcta tgattctaga agtcaaaaagg agtcaaaaagg
 tgtctataga actagtggg ctctgcagtg tgaaaaacgg ttctccatag gcattaaaagt gcattaaaagt
 gctgaatgct cagtctgac acaagtggg cactgcact accacttttt agaggaat agaggaat
 cactccctcg taagcattgg aagtcataa tattttgaag tgattttttt taaaaaaaag taaaaaaaag
 tcttctgttt attaacagga aaatttattt attgacagg attttgagta atgtaggaat atgtaggaat
 acaaaaggta aattagcagc acataaatt ttgttttaatt ttatgatcca tttgtatgg tttgtatgg
 tctcaaaagt ggatgacctt attactaata ttgtttgtaa aagtgaaact tgtttgcaaa tgtttgcaaa
 ccaataaaca actgattgag atttagaaga tattgtaaaa aaaaaaaa aaa
 MWPSQLLIFM MLAPIIHAF SRAPIMAVV RRELSCESYP IELRCPTDV IMIESANYGR P
 TDDKICSDP AQMENIRCYL PDAYKIMSQR CNNRQCAVV AGPDVFPDPC PGTYKYLEVQ

Homo
sapiens

413	25359	G Protein- Coupled Receptor GPR34	NM_005300	<p>YECVPYKVEQ KVFCLPGLLK GYQSEHLFE SDHQSGAWCK DPLQASDKIY YMPWTPPYRTD</p> <p>TLTEYSSKDD FIAGRPTTTY KLPHRVDGTG FVYDGALEFF NKERTRNIVK FDLRTRIKSG</p> <p>EAIIANANYH DTSPYRWGK SDIDLAVDEN GLWVIYATEQ NNGKIVISQL NPYTLRIEGT</p> <p>WDTAYDKRSA SNAFMICGIL YVVKSVYEDD DNEATGNKID YIYNTDQSKD SLVDVPPFNS</p> <p>YOYIAAVDYN PRDNLVYNN NYHVVKYSLD FGPLDSRSGQ AHGQVSYIS PPIHLDSELE</p> <p>RPSVKDISTT GPLGMGSTTT STTLRTTLLS PRSTTPSPVS GRNRSTSTP2 SPAVEVLDDM</p> <p>TTHLPASSQ IPALEESCEA VEAREIMWFK TRQGIQAKQP CPAGTIGVST YLCLAPDGIW</p> <p>DPQGPDLUNC SSPWNHITQ KIKSGETAAN IARELAEQTR NHLNAGDITY SVRAMDQLVG</p> <p>LIDVQLRNLIT PGGKDSAARS LNKLOKRERS CRAYQAMVE TVNNLLQPOA LNAWRDLTTS</p> <p>DQLRAATMLL HTVEESAFVL ADNLLKTDIV RENTDNIKLE VARLSTEGNL EDLKFFENMG</p> <p>HGSTIQLSAN TLKQNGRNGE IRVAFVLYNN LGPYLSTENA SMKLGTEALS TNHSHVIVNSP</p> <p>VITAAINKEF SNKYVLADPV VETVKHIKOS EENFNPCSF WSYSKRTMTG YWSTQGCRL</p> <p>TNKTHTTCS CNHLTNEAVL MAHVEVKHSD AVHDLILDVI TWVGILLSLV CLLICIFTEC</p> <p>FFRGLQSDRN TIHKNLCISL FVAELLFLIG INRTDQPIAC AVFAALLHFF FLAFTWMFL</p> <p>EGVQLYIMLV EVFESEHSRR KYFYLVGGM PALIVAVSAA VDYSYGTDK VCWLRLDTYF</p> <p>IWSFIGPATL IIMLVIFLG IALYKMFHHT AILKPESGCL DNINYEDNRP FIKSWVIGAI</p> <p>ALLCLGLTW AFGIMYINES TVIMAYLFTI FNSLQGMFIF IFHCVLQKKV RKEYGKCLRT</p> <p>HCCSGKSTES SIGSGKTSQS RTPGRYSTGS QSRIRRMWMD TVRKQSESSF ITGDINSSAS</p> <p>LNREPYRETS MGVLNLIAYQ IGASEQCQGY KCHGYSTEW</p> <p>atgagaagtc ataccataac aatgacgaca acttcagtcg gcaagctggcc ttactctccc A</p> <p>cacagaatgc gctttataac caatcatagc gaccaacgcg cacaaaactt ctacagcaaca</p> <p>ccaaatgta ctactgtcc catggtatgaa aaattgttat ctactgtgtt aaccacatcc</p> <p>tactctgta tttcatcgt gggactggtt gggaacataa tcgacctcta tgtattctg</p> <p>ggtattcacc gtaaaagaaa ttccattcaa atttatctac ttaacgtagc cattgcagac</p> <p>ctcctactca tcttctgcct cctttccga ataattatc atattaacca aaacaagtgg</p> <p>acactaggtg tgattctgtg caaggtgtgt ggacaactgt tttatatgaa catgtacatt</p> <p>agcattattt tgcttggtt catcagtttg gatcgctata taaaataataa tcggtctata</p> <p>cagcaacgga aggcaataac aaccaaacaa agtatttatg tctgttgtat agtatggatg</p> <p>cttgctcttg gtgatttcct aactatgatt attttaacac ttaagaaagg aggcataat</p> <p>tcacaaatgt gtttccatta cagagataag cataacgcaa aaggagaagc catttttaac</p> <p>ttcattcttg tgtaaatgt ctggctaatt ttcttactaa taatcctttc atatatataa</p> <p>attgggaaga atctattgag gatttctaaa aggaggtaaa aatttctaa ttctggtaaa</p> <p>tatgccacta cagctcgtaa ctcttttatt gtacttatca tttttactat atgttttgtt</p> <p>ccctatcatg ccttctgatt catctacatt tcttcacagc taaatgtatc atctgtctac</p> <p>tggaagaagaa ttgttcacaa aaccaatgag atcatgtgtg tctctctatc ttccaatagt</p> <p>tgcttagatc cagtcattga tttcctgatg tccagtaaca ttccgcaaaa aatgtgcca</p> <p>cttcttttta gacgatttca aggtgaacca agtaggagtg aaagcacttc agaattttaa</p> <p>ccaggatact cctcgtcatg tacatctgtg gcagtgaaaa tacagctctag ttctaaaagt</p> <p>acttga</p>	Homo sapiens
414	25359	G Protein- Coupled	NP_005291.1	<p>MRSHITWTMT TSVSWPYSS HRMRFITNHS DQPPQNSAT PNVVTCPMDE KLLSTVLTTTS P</p> <p>YSVIFIVGLV GNIIALYVFL GIHKRNSIQ IYLLNVAIAD LLLIFCLPFR IMYHINQNKW</p>	Homo sapiens

415	30698	Receptor GPR34	G Protein- Coupled Receptor Is30698	AX068267	<p> TLGVILCKV GTLFYNNMYI SIILLGFISL DRYIKINRSI QQRKAITTKQ SIYVCCIVWM LALGGFLTMI ILTLKKGHN STMCIFYRDK HNAKGEAFN FILVVMFWLI FLIIILSYIK IGKNLIRISK RRSKFPNSGK YATTARNSEI VLIIFICFV PYHAFRFIYI SSQNVSSCY WKEIVHKTNE IMLVLSSFNS CLDPVMYFLM SSNIRKIMCQ LLFRRFQGEF SRSESTSEFK PGYSLHDTSV AVKIQSSSKS T gtctcagat cggcttctcg caacaggcag tcagttctca ctggggccct tggactccca A ttccaataat ggagaagaca gatacagcc actgaccagg gacctggga ggtgccacgt gatgtgagg catcatgcta gggagctgag cctgacctt cctgctgggt gattctccac ctctgggctg ctagatctac ttccctggatg ccgtgaagat cctcatgtat gaaaatgaag tcccaggcaa ccatgatttg ctgcttagtg ttctttctgt ccacagaatg ttcccactat agatccaaaga ttacacctaaa aagctatagt gaagtggcca accacatcct cgacacagca gccatttcaa actgggcttt cattcccaac aaaaatgcca gctcggattt gttgcagtca gtgaatttgt ttggccagaca actccacatc cacaataatt ctgagaacat tgtgaatgaa ctcttcattc agacaaaagg gtttcacatc aaccataata cctcagagaa aagcctcaat ttctccatga gcatgaacaa taccacagaa gatatcttag gaatggtaca gattccacgg caagagctaa ggaagctgtg gccaaatgca tcccaagcca ttagcatagc ttcccaacc ttgggggcta tcttgagaga agcccacttg caaatgtga gtcttcccag acaggtaaat ggtctggctc tatcagtgtt ttaccagaa agttgtgaag aaatcatact caccttcgaa aagatcaata aaacccgcaa tgccagagcc cagtgtgttg gctggcaact caagaaagg agatgggatg agaaagcgtg ccaaatgatg ttggatatca ggaacgaagt gaaatgocgc tgtaactaca ccagtgtgtg gatgtcttt tccattctca tgctctccaa atcgatgacc gacaaaagtc tggactacat cacctgcatt gggctcagcg tctcaatcct aagcttggtt ctttgcctga tcaatgaagc cacagtgtgg tccgggtggg ttgtgacgga gatatacat atggtcacg tgtgcatcgt gaatatagca gtgtcccttc tgactgcca tgtgtggtt atcataggct ctcaacttaa cattaaaggcc caggactaca acatgtgtg tgcatgaca tttttcagcc actttttcta cctctctctg tttttctgga tgctcttcaa agcattgctc atcatttatg gaatatgtgt cattttccgt aggatgatga agtcccgaat gatggtcatt ggctttgcca ttggctatgg gtgccattg gagacctgag gctgttggc ttaactggga caataccaaa gagccagaga acggctacat gagacctgag cccggcgttc cctgtaaatct gattggtgtt gcccttttag catttgccat cccggcgttc tctatggcca gtccaaagtc tcaggatgtg ttgggtgttg ctgtcaacac tcagaggccc tctatggcca ctccactgct gggactgacc gtcaataa taaggatcag caaaaatgtt gccatcctca ctccactgct gggactgacc tgggggttttg gaatagccac tctcatagaa ggcacttctc tgacttcca tataattttt gccttgctca atgctttcca ggggtttttc atctgtctgt ttggaacctat tatggatcac aagataaagag atgctttgag gatgaggatg tcttactga aggggaaatc gagggaagct gagaatgcat cactaggccc aaccaatgga tctaaattaa tgaatcgtca aggatgaaat gctgccccat ttctcatgga tgtcctgaga ccaagagggg agatccagga gaaagaggcc atggaaaagca ggctggagtg agggaggaatg gtcattgctc cttgggaagac ttctcttct tgtcaggagt gactcccaag ctcttggtcg gccgaagaaa aactgagat aacatttgc gactgggctt taaggagcat gatttatgga cccttaacc taccgtgcc ctgcaagagg ctggcttctt ggtcaatctt gactagatta agagtcaatc tgcaagccat ttatgtgtct </p>	Homo sapiens
-----	-------	-------------------	--	----------	---	--------------

301/448

416 30698 G Protein-
Coupled
Receptor
Ls30698 CAC27252.1 Homo
sapiens

ccctggccag ctgggggctg tagggccctg ctgggcttgg tgcgtttca ctcctgaggg
ctgctctgtg gctccatagc tcagtcctcc atcactctgc gtggatcctg ggtactttgg
acagtggagg ttgatccaa ttttaggggt aggttgggg gtggagtggt gagtgggggt
tggcaggagg aagaatgagt ctactttgga gacaataag tcagtgtacg tttcctaag
atagggaacg gaagaaaagc aagagaactg ttaataatgc tgattatttt agtctatttt
agacctgag taaactaatt tagcttctag gatccaagt tccctatttg tgaacaagga
aaaaaaatt ctgttaggta ttactgtttg tgtgtttgag ttactgcac atgtttgtgt
ttgtgtatat gtgtctttta aaaatactat atataaagaa gattctgggt gttattttg
acataaagca atatatgtac ctttcac
MKMSQATMI CCIVFFLSTE CSHYRSKIH KSYSEVANH LDTAAISNWA FIPKNASSD P
LLQSVNLFAR QLHINNSN IVNELFIQTK GFHINHTSE KSLNFSMSMN NTEDILGMV
QIPRQELRKL WPNASQAISI AFPTLGAILR EAHLQNVSLP RQVNLGLVLSV VLPERLQEI
LTFEKINKTR NARAQCVGWH SKRRRWDEKA COMMLDIRNE VKRCNYTSV VMSFSILMSS
KSMTDKVL DY ITCIGLSVSI LSLVLCIIIE ATVWSRVVVT EISYMRHVC I VNIAVSLLT A
NVWFIIGSHF NIKRQDYNMC VAVTFFSHFF YLSLFFWMLF KALLIYYGIL VIFRRMKSR
MMVIGFAIGY GCPLIIAVTT VAITEPENGY MRPEACVLNW DNTKALLAFA IPAFVIVAVN
LIVLVVAVN TORPSIGSSK SQDVIIIMRI SKNVAITPL LGLTWGFGIA TLIEGTSLTF
HIIIFALLNAF QGFFILLFGT IMDHKIRDAL RMRMSSLK GK SRAAENASLG PTNGSKLMNR
QG

417 30875 G Protein-
Coupled
Receptor
GPR87/GPR95 NM_023915 Homo
sapiens

ggcacgaggg tttcgttttc atgctttacc agaaaatcca cttccctgcc gacctagtt A
tcaaagctta ttcttaatta gagacaagaa acctgtttca acttgaagac accgtatgag
gtgaatggac agccagccac cacaatgaaa gaaatacaac caggaaataac ctatgctgaa
cccacgctc aatcgtcccc aagtgtttcc tgacacgcat ctttgcttac agtgcatac
aactgaagaa tgggggttcaa ctgacgctt gcaaaattac caataaaca gctgcacggc
caagagagtc acaattcagg caacaggagc gacgggccag gaaagaacac cacccttcac
aatgaatttg acacaattgt cttgccgtg ctttatctca ttatatattgt ggcaagcatt
ttgctgaatg gtttagcagt gtggatcttc ttccacatta ggaataaaac cagcttcata
ttctatctca aaacatagtt ggttgcagac ctcataatga cgtgacatt tccatttcga
atagtcocatg atgcaggatt tggaccttgg tacttcaagt ttattctctg cagatacact
tcagttttgt ttatgcaaa catgtatact tccatcgtgt tccctgggct gataagcatt
gatcgtatc tgaagggtgt caagccattt ggggactctc ggtgtacag cataaccttc
acgaagggtt tatctgtttg tgtttgggtg atcatggctg ttttgtcttt gccaaacatc
atcctgacaa atggtcagcc aacagaggac aatatccatg actgtcaaa acttaaaagt
cctttggggg tcaaatggca tacggcagtc acctatgtga acagtgtctt gtttgtggcc
gtgtgtgtga ttctgatcgg atgttacata gccataacca ggtacatcca caaatccagc
aggcaattca taagtcagtc aagccgaaaag cgaaaacata accagagcat cagggttgtt
gtggctgtgt tttttacctg ctttctacca tatcacttgt gcagaattcc ttttactttt
agtcacttag acaggctttt agatgaatct gcacaaaaaa tccctatatta ctgcaaaagaa
attacacttt tcttgtctgc gtgtaattgt tgcctggatc caataattta ctttttcag
tgtaggtcat tttcaagaag gctgttcaaa aaatcaata tcagaaccag gagtgaagc
atcagatcac tgcaaaagtgt gagaagatcg gaagtctgca tatattatga ttacactgat

418	30875	G Protein- Coupled Receptor GPR87/GPR95	NP_076404.1	gtgtaggcct tttattgttt gttggaatcg atatgtacaa agtgtaataa aatgtttctt ttcattatcc ttaaaaaaa aa GLAVWIFFHI RNKTSFIFYL KNIVVADLIM TLTFPFRIVH DAGFGPWYFK FILCRYTSVL FYANMYTSIV FLGLISIDRY LKWKVPFGDS RMYSIITFKV LSVCVWVIMA VLSLPNIILT NGQPTEDNIH QCSKLKSPGL VKWHTAVTYV NSCLFVAVLV ILIGYIAIS RYHKSSRQF ISQSSRRKXH NQSIKRVAV FFCFLPXYHL CRIPFTSHL DRLDESAQK ILYYCKEITL FLSACNVCLD PIIFYFMCRS FSRRLFKXSN IRTSESIRS LQSVRRSEVR IYYDYTDV ggccttatct tteccagtcg ccagctgctc cagctgcagg cagccaccc cagcccgagg tgcactgacc A atgagcctca actcctcctc cagctgcagg aaggagctga gtaaatctcac tgaggaggag ggtggcgaag ggggctgcat catcacccag ttcaccccca tcaattgtcat caccattttt gtctgcttgg gaaacctggg catcgtgggc acctgtgaca agaagtccta cctcctcacc ctcagcaaca agttcgtctt cagcctgact ctgtccaact tctgctgtgc cgtgttgggtg ctgccttttg tggtagcagag ctccatccgc agggaatgga tcttgggtg agtgtgggtgc aacttctctg cctcctcta cctgctgac agctctgcca gcatgctaac cctcggggtc atggccatcg accgctacta tgcgtgctcg taccceatgg tgtaccccat gaagatcaca gggaaccggg ctgtgatggc acttgtctac atctggcttc actcgtctcat cggctgcctg ccaccctgt ttggttgggc atccgtggag tttagcagat tcaaatggat gtgtgtggct gcttggcacc gggagcctgg ctacacgggc ttctggcaga tctggtgtgc cctcttcccc tttctgggtca tgcgtggtgt ctatggcttc atcttccgcg tggccagggt caaggcagc aaggtgcact gtggcacagt cgtcatcgtg gaggagatg ctacagaggac cgggaggaaag aactccagca cctccacctc ctcttcaggc agcaggagga atgcctttca ggtgtgggtc tactggcca accagtgaac agccctcac accatcctgg tggctcctcg tgccttcctg gtcacctggg gccctacat ggttgtcat gccttgagg ccctctggg gaaaagctcc gtctccocga gcctggagac ttgggccaca tggctgtcct ttgccagcgc tgtctgccac ccctgatct atggactctg gaacaagaca gtctgcaaa aactactggg catgtgcttt ggggaccggg attatcggga accatttgtg caacgacaga ggacttccag gctcttcagg atttccaaca gatatcacaga cctgggcttg tccccacac tcaactgcgt catggcagggt ggacagcccc tggggcacag cagcagcacg ggggacactg gcttcagctg ctcccaggac tcaggtaacc tgcgtgcttt ataagcctct cactgtcgc gtttccctg tgttgcgttt cccccgctg cgtttcccc tgtgcaggct caagagctgg cggagggggca tttccacggg tg	Homo sapiens
419	31568	G Protein- Coupled Receptor RE2	NM_007369	MSLNSLSLSCR KEISNLTEEE GGEGVITQ FIAIVITIF VCLGNLVIVV TLYKKSYLIT P LSNKFVFSLT LSNFLSLV LNFVVTSSIR REWIFGVWVC NFSALLYLLI SSASMLTLGV IAIDRYAVLV YPMVYPMKIT GNRAVMALVY IWLHSLIGCL PLFLGWSVVE FDEFKMCVA AWHREPGYTA FWOIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGK NSSTSTSSG SRNFAQGVV YSANQCKALI TILVVLGAFM VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLMNKT VRKELGMCF GDRYYREFV QRQTSRLFS ISNRITDLGL SPHILTALMAG GQPLGHSST GDTGSCSQD SGNLRAL atggcacact cccggctcgg tgtgtcctctg tcttgcctg tctgtctga gctggcgacc A gggggcagct ctcccaggtc tgggtgtgtg ctgagggggt cgtgcacaca ctgtcattgc	Homo sapiens
420	31568	G Protein- Coupled Receptor RE2	NP_031395.1	MSLNSLSLSCR KEISNLTEEE GGEGVITQ FIAIVITIF VCLGNLVIVV TLYKKSYLIT P LSNKFVFSLT LSNFLSLV LNFVVTSSIR REWIFGVWVC NFSALLYLLI SSASMLTLGV IAIDRYAVLV YPMVYPMKIT GNRAVMALVY IWLHSLIGCL PLFLGWSVVE FDEFKMCVA AWHREPGYTA FWOIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGK NSSTSTSSG SRNFAQGVV YSANQCKALI TILVVLGAFM VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLMNKT VRKELGMCF GDRYYREFV QRQTSRLFS ISNRITDLGL SPHILTALMAG GQPLGHSST GDTGSCSQD SGNLRAL atggcacact cccggctcgg tgtgtcctctg tcttgcctg tctgtctga gctggcgacc A gggggcagct ctcccaggtc tgggtgtgtg ctgagggggt cgtgcacaca ctgtcattgc	Homo sapiens
421	36534	G Protein- Coupled	NM_003667	MSLNSLSLSCR KEISNLTEEE GGEGVITQ FIAIVITIF VCLGNLVIVV TLYKKSYLIT P LSNKFVFSLT LSNFLSLV LNFVVTSSIR REWIFGVWVC NFSALLYLLI SSASMLTLGV IAIDRYAVLV YPMVYPMKIT GNRAVMALVY IWLHSLIGCL PLFLGWSVVE FDEFKMCVA AWHREPGYTA FWOIWCALFP FLVMLVCYGF IFRVARVKAR KVHCGTVIV EEDAQRTGK NSSTSTSSG SRNFAQGVV YSANQCKALI TILVVLGAFM VTWGPYMWVI ASEALWGKSS VSPSLETWAT WLSFASAVCH PLIYGLMNKT VRKELGMCF GDRYYREFV QRQTSRLFS ISNRITDLGL SPHILTALMAG GQPLGHSST GDTGSCSQD SGNLRAL atggcacact cccggctcgg tgtgtcctctg tcttgcctg tctgtctga gctggcgacc A gggggcagct ctcccaggtc tgggtgtgtg ctgagggggt cgtgcacaca ctgtcattgc	Homo sapiens

gagcccgacg gcaggatggt gctcaggggtg gactgctccg acctgggggt ctccggagctg
ccttccaac ttaggtctt cactccctac ctgacctca gtatgaacaa catcagtcag
ctgctccga atccctgccc cagttccgc ttcttgagg agttacgtct tgcgggaaac
gctctgacat acattcccaa gggagcattc actggccttt acagtcttaa agttcttatg
ctgcagata atcagctaag acacgtaccc acagaagctc tgcagaattt gcgaagcctt
caatccctgc gctggatgc taaccacatc agctatgtgc cccaagctg ttctcagtgcc
ctgcattccc ttaggcacct gtagctggat gacaaatcgt taacagaaat cccgtcccag
gcttttagaa gtttatcgcc attgcaagcc atgacctggg cctgaacaa aatacaccc
ataccagact atgaccttgg aaacctctcc agcttgtag ttctacatct ccataaacaat
agaatccact cctgggaaa gaaatgcttt gatggctcc acagcctaga gacttttagat
ttaaattaca ataaccttga tgaattcccc actgcaatta ggacactctc caaccttaaa
gaactaggat ttcatagcaa caatatcagg tcgatacctg agaaagcatt ttagggcaac
ccttctctta ttacaataca ttcttatgac aatccatcc aattgttgg gagatctgct
tttcaacatt tacctgaact aagaacactg actctgaatg gtgctcaca aataactgaa
tttccigatt taactggaac tgcacacccg gagagcttga ctttaactgg agcacagatc
tcattctctc ctcaaacctg ctgcaatcag ttacctaatc tccaagtgtc agatctgtct
tacaacctat tagaagattt acccagtttt tcagtctgcc aaaagcttca gaaaattgac
ctaagacata atgaatcta cgaatttaa gttagcactt tccagcagtt gcttagcctc
cgatcgctga atttggttg gaacaaaatt gctattattc acccaaatg atttccact
ttgcccctcc taataaagct ggacctatgc tccaactcc tctgtcttt tctataact
gggttacatg gtttaactca cttaaaatta acaggaaatc atgcttaca gagcttgata
tcattgaaa actttccaga actcaagggt atagaaatgc cttatgctta ccagtgtgt
gcatttggag tgtgtgagaa tgcctataag atttctaac attggaataa aggtgacaac
agcagtatgg acgaccttca taagaaagat gctggaatgt ttccaggtcga agatgaacgt
gaccttgaag atttctgct tgaatttgag gaagacctga aagcccttca ttcagtgcag
tgttccactt cccaggccc cttcaaaccc tgtgaacacc tgccttgatgg ctggctgac
agaattggag tgtggacct agcagttctg gcactactt gtaatgcttt ggtgacttca
acagttttca gatccccctt gtacatttcc cccattaaac tgttaattgg ggtcatcgca
gcagtgaaca tgcctacggg agtctccagt gccgtgctgg ctgggtgtgga tgcgttact
tttggcagct ttgcacgaca tgggtgctgg tgggagaatg gggttgggtt ccattgctatt
ggttttttgt ccatttttgc ttcagaatca tctgttttcc tgccttactct ggcagccctg
gagcgtgggt tctctgtgaa atattctgca aaattgaaa cgaagctcc atttctagc
ctgaaagtaa tcaatttctg ctgtgcccctg ctggccttga ccaatggccc agttccccg
ctgggtggca gcaagtatgg cgcctcccc ctctgctgc ctttgcctt tggggagccc
agcaccatgg gctacatggt cgctctcatc ttgtcfaat ccttttgcct cctcatgatg
accattgcct acaccaagct ctactgcaat ttggacaagg gagacctgga gaattttgg
gactgctcta tggtaaaaa cattgcccctg ttgtcttca ccaactgcat cctaaactgc
cctgtggctt tcttctctt ctcctcttta ataaacctta ctttatcag tcttgaagta
attaagttaa tcttctggt ggtagtccca ctctctgcat gtctcaatcc ccttctctac
atcttgttca atctctact taaggaggat ctgttgagcc tggaaaaaga aacctacgtc
tggacaagat caaacaccc aagcttgatg tcaattaaact ctgatgatg cgaataacag

422	36534	G Protein- Coupled Receptor GPR49	NP_003658.1	<p>tcctgtgact caactcaagc cttggttaacc ttaccagct ccagcatcac ttatgacctg cctccagtt ccgtgccatc accagcttat ccagtgaatg agagtgcca tcttccctc gtggcattg tccatgtct ctaa</p> <p>PSNLSVFTSY LDLSMNNISQ LLPNPLPSLR FLEELRLAGN ALTYPKGAF TGLYSLKVLIM LQNNQLRHVP TEALQNLRSI QSLRLDANHI SYVPPSCFSG LHSRLHLWLD DNALTEIPVQ AFRSLAQOA MTLALNKIHH IPDYAFGNLS SLVVLHNN RHISIGKKCF DGLHSLETLD LNNNLDEFP TAITLSNLK ELGFHSNNIR SIPEKAFVGN PSLTTHFYD NPIQFVGRSA FQHLPELRTL TLNGASQITE FPDLTGTANL ESLLTGAQI SSLPQTVCNQ LPNLQVLDSL YNLLEDLPF SVCOKLQKID LRHNEIYEIK VDTFQQLLSL RSLNLAWNKI AIHPNAFST LPSLIKLDSL SNLSSFPIT GLHGLTHLKL TGNHALQSLI SSENFPPELV IEMPYAYQCC AFGVCEWAYK ISQWNKGDN SSMDDLHKDD AGMFQADDER DLEDFLLDFE EDLKALHSVQ CSPSPGPFKP CEHLDDGLI RIGWTTIAVL ALTCNALVTS TVFRSPLYIS PIKLLIGVIA AVNMLTGVSS AVLAGVDAFT FGSFARHGAW WENGVGCHVI GFSLIFASES SVFLLTLAAL ERGFVVKYSA KFETKAPFSS LKVIILLCAL LALTMAAVPL LGSSKYGASP ICLPLPFGEF STMGYMVALI LLNSLCFLMM TIAYTKLYCN LDKGDLNIIW DCSMVKHIAL LLFTNCILNC PVAFLSFSSL INLTFFISPEV IKFILLVVVP LPACLNPLLY ILFNPHFKEF LVSLRKQTYV WTRSKHPSLM SINSDDVEKQ SCDSTQALVT FTSSSTYIDL PPSSVPSPAY PVTESCHLSS VAFVPCIL</p>	Homo sapiens
423	37498	Xenotropic and Polytropic Retrovirus Receptor (XPRI)	NM_004736	<p>actagagatg gcgggcgggc tgctctgaag agacctcggc ggccggcggag gaggagagaa A gcgcagcgc gcgcgcgcgc gggggcccatg tggggagagag tcggagtcgc tgttgccgcc gccgcctgta gctgctggac ccgagtggga gtgaggggga aacggcagga tgaagtccgc cgagacccct tcgcgcgaca tcactccgga gtggaggaag caatacatcc agtatgagc tttcaaggat atgctgtatt cagctcagga ccaggcacct tctgtggaag ttacagatga ggacacagta agagaggtatt ttgccaaagt tgaagagaag tttttccaaa cctgtgaaaa agaaactgcc aaatacaaca cattttatc agagaagctc gcagagggctc agcgaggtt tgctacactt cagaatgagc ttcagtcac actggatgca cagaaagaaa gcactgggtg tactacgctg cgacaacgca gaaagccagt cttccacttg tccatgagg aacgtgtcca acatagaaat attaaagacc ttaaaactggc cttcagtgag ttctacctca gtctaactct gctgcagaac taccagaatc tgaattttac aggttttcga aaatccctga aaagcatga caagatcctg gaaacatctc gtggagcaga ttggcgagtg gctcacgtag aggtggcccc atthtataca tgcaagaaaa tcaaccagct tatctctgaa actgagggctg tagtgaccaa tgaacttgaa gatggtgaca gacaaaaggc tatgaagcgt ttacgtgtcc cccctttggg agctgctcag cctgcaccag catggactac ttttagagtt ggctattttt gtggaattt cattgtactg aatattaccc ttgtgcttgc cgtgtattt aaacttgaaa cagatagaag tatatggccc ttgataagaa tctatcgggg ttgctttctt ctgattgaat tctttttct actgggcatc aacacgtatg gtggagaca ggctggagta aacctgtac tcatcttga acttaattccg agaagcaatt tgtctcatca acatctctt gagattgtg gattcctgg gatattgtgg tgcctgagcc ttctggcatg cttctttgct ccaattagt tcatccccc atatgtgat ccacttgccc tttatggatt tatgttttct tctctatca accccacaa aactttctac tataaatccc gggttttggt gcttaaaactg ctgtttcag tatttaacagc</p>	Homo sapiens

ccccctccat aaggtaggct ttgctgattt ctggctggcg gatcagctga acagcctgtc
 agtgatactg atggacctgg aatatatgat ctgctttac agtttgagc tcaaatggga
 tgaagtaag ggctgttgcc caataatcc agaagaatca ggaatttgcc acaaatatac
 atatgggtg cggtccattg ttcagtgcac tccctcattt gttaatgctg gcaagtactc
 gcgccgatat cgagacacaa aaaggccctt tccctcattt gttaatgctg gcaagtactc
 cacaacttc ttcagtgttg cggttgagc cctttacagc actcacaag aacgaggta
 ctggacact atggtgttct ttacctgtg ggtgtcttcc tatacatca gttcctgcta
 taccctcatc tgggactcca agatggactg ggtgtcttcc tatacatca gttcctgcta
 cacttctctc cggaagaga ttgtataccc ccaaaaagcc tactactact gtgccataat
 agaggatgtg attctgcgt ttgcttgagc tatccaaatc tgcattacct ctacaacttt
 gttgcctcat tctggggaca tcatgtctac tgccttgcc ccaactgagc tttccggcg
 attgtgtgg aactcttcc gctggagaa tgaacatctg aataactgtg gtgaattccg
 tgctgtgcgg gacatctctg tggcccccct gaacagat gatcagactc tctagaaca
 gatgatggac caggatgatg ggttacgaaa ccgcaagaag aatcgttcat ggaagtacaa
 ccagagcata tccctgcgc gcctgcgc taacactga attttctgaa gtctagctta
 ggtattgata gaagacacag atgatgaagc taacactga attttctgaa gtctagctta
 acatcttgg ttttctact ctacaatcct ttcctgacc aacgcaacct ctagtacct
 tccagcga aacaggagaa aacacataac acatttccg agctcttccg gatcggatcc
 tatggactcc aacaagctc actgtgttc ttttcttcc tctgtgttca atttcaatt
 tctatttca aacaagat ttacttcat tgcacatcag aggtgttctt aagaaacaaa
 acatagtatc ttatggattg tttaacaatc caaggacata gatactatc aggatgaaga
 acaggcattg caaggaccct ctgatggac ggtactgaga tatctcggc tccgtcagc
 ccggtttga atggtgaaa ccggacattg gtttttaaat ttttctcag tttatgtgga
 gaatttttt ctctctcca taccagcgc aaagcactg gccgacttg caggaaaagt
 gcaacttaaa gcagtacctt cattcatgaa gctactttt aattgatgt aactttctt
 attttggaa ggtgtgctg gtgggtggga aatatgatg attgttaca catagtttc
 tcattattta tgaactta ccatacagaa tgatataact cctgtgcaat gaagtgata
 acagtaaaag aagcaggag aaaaaaaa

NP_004727.1 MKFAEHLASAH ITPERKQYI QYEAFKDMLY SAQDQAPSV VTDETVKRY FAKFEKFFQ P
 TCEKELAKIN TFYSEKLAEA QRFATLQNE LQSSLDQKE STGVTTLRQR RKPVHLSHE
 ERVQHRNIKD LKLAFFSEFYI SLILLQNYQN LNFTGFRKIL KKHDKILETS RGADWRVAHV
 EVAPFYTCCK INQLISETEA VVTNELEDGD RQKAMKRLRV PPLGAAQAPAWTTFRVGLF
 CGIFIVLNT LVLAAVFKLE TDRSIWPLIR IYRGGFLIE FLFLIGINTY GWRQAGVNHV
 LIFELNPRSN LSHOHLFEIA GFLGILWCLS LLACFFAPIS VIPTVYVPLA LYGFVFFLI
 NPTKTFYKS RFWLKLLFR VFTAPFHKVG FADFWLADQL NSLSVILMDL EYNICFYSLE
 LKWDSEKGLL PNNSESGIC HKYTYGVRAI VQCIPIAWLRF IQCLRRYRDT KRAFPHLVNA
 GKYSTTFMW AFAALYSTHK ERGHSMTWVF FYLWIVFYII SSCYTLIWDL KMDWGLFDKN
 AGENTFLREE IVYPOKAYY CAIIEDVILR FAWTIQISIT STTLPHSGD IATVFAPE
 VFRFVWNFF RLENEHLNCC GEFRVVRDIS VAPLNADDQT LLEQMDQDD GVRNRQKNRS
 WKYNQISILR RPRLASQSKA RDTKVLIEDT DDEANT

Homo
 sapiens

424 37498 Xenotropic
 and
 Polytropic
 Retrovirus
 Receptor
 (XPR1)

425	40881	Lung Seven Transmembran e Receptor 2 (LUSTER2)	AX073578	agagatggca gtgagcgaga ggaggggggct cggccgcggg agccccggg agtgggggca A gcggctactt ctgggtctgc tgttgggtgg ctgctccggg cgcaccacc ggcgtggcgt gacgggggag aagcgagcgg acatccagct gaacagcttc ggtttctaca ccaatggctc tctggaggtg gagttagctg tccgtcggct gggcctcggg gaggcagaag agaagtcctt gctgggtggg ttcagtcctc gccgggttcg gctgggaga gttcgtcctt attcaaccgg ggatttccag gactgcccct tccagaaaaa cagtagcagt ttctgtgtcc tgttctctcat caacaccaag gatctgcagg tccaggtgcg gaagtatgga gacgagaaga cgttgtttat ctttccggg ctcctccgg aagcaccctc caaaccagg ccccgaaagc cacaggccac agtccccgc aaggtggatg ggggaggagc ctctgagcc agcaagccca agtcaacacc cgagtgatt cagggtccta gtgggaagga caaggacctg gtgttgggct tgagccacct caacaactcc tacaacttca gtttccacgt ggtgatcggc tctcaggcg aagaaggcca gtacagcctg aacttccaca actgcaacaa ttcatgtcca ggaaggagc atccattcga catcacggtg atgatccggg agaagaacct cgatggcttc ctgtcggcag cggagatgcc cctttcaag ctctacatgg tcatgtccgc ctgtctcctg gccgttgga tcttctgggt gtccatctc tgcaggaaca cgtacagcgt cttaagatc cactggctca tggcggcctt ggcctcacc aagagcatct ctctcctctt ccacagcat aactactact tcatcaacag ccagggccac ccatcgaaag gccttgccgt catgtactac atgcacacc tgctgaagg cgccctctc ttcatacaca tgccttgat tggctcaggc tggccttca tcaagtacgt cctgtcggat aaggagaaga aggtctttgg gatcgtgat cccatgcagg tccgtgccaa cgtggcctac atcatcatcg agtcccgga ggaaggcgcc agcgactacg tgctgtggaa ggagattttg ttcctgggtg acctcatctg ctgtgtgtcc atctgttcc ccgtagtctg gtccatccgg catctccagg atgcgtctgg cacagacggg aaggtggcag tgaacctggc caagctgaag ctgttccggc attactatgt catgtcatc tgctacgtct acttcaccg catcatcgcc atcctgctgc aggtggctgt gcccttcag tggcagtgcc tglaccagct cttgggtggag ggctccacc tggccttctt cgtgtctcag ggtacaagt tccagccac aggaacaac cgtacactgc agctgcccc aagagacgag gaggatgttc agatggagca agtaatgacg gactctgggt tccgggaagg cctctccaaa gtcaacaaa cagccagcgg gcggaactg ttatgatcac ctccacatct cagacaaaag ggtcgtcctc cccagcatt tctcactcct gcccttctc cacagcgtat gtggggaggt ggagggggtc catgtggacc agggcccccag ctccccggga ccccggttcc cggacaagcc catttggaag aagatccct tctcccccc aaatattggg cagccctgtc ctacccccg gaccacctt ccttccagc tatgtgtaca ataagacca atctgtttgg ct	Homo sapiens
426	40881	Lung Seven Transmembran e Receptor 2 (LUSTER2)	CAC28410.1	MAVSERRGLG RGSPAEWGQR LLLVLLGGC SGRHRLALT GEKRADIQLN SFGFTNGSL P EVELSVLRIG LREAEEKSL VGFSLSRVRS GRVRSYSTRD FQDCPLQKNS SSFLVLEFLN TKDLQVQVRK YGEQKTLFIF PGLLPEAPSK PGLPKPQATV PRKVDGGTS AASKPKSTPA VIQFSGKDK DLVLGLSHLN NSYNFSFHV IGSAEEGQY SLNFHNCNNS VPGKEHPDI TVMIREKNPD GFLSAEMPL FKLYMVMSAC FLAAGIFWS ILCRNTYSVF KIHWMALALA FTKSISLLFH SINYFINSQ GHPIEGLAV YIAHLLKGA LIFTITIALIG SGWAFIKYVL SDKEKKVFGI VIPMQVLAV AYIIIESREE GASYVLWKE ILFLVDLIC GAILFPVWS IRHLQDASGT DGKAVNLAK LKLFRIHYVM VICYVFTRI IAILQVAVP FQWQWLYQLL VEGSTLAFFV LTGYKFQPTG NNPLYQLPQE DEEDVQMEQV MTDSGFREGI SKVNTASGR	Homo sapiens

427	42697	G Protein- Coupled Receptor GPR64	NM_005756	ELL	Homo sapiens
				agccagcccg aggaagcgag cggcagggtgt gcacagaggt tctccacttt gttttctgaa A ctccgggtca ggatggtttt ctctgtcagg cagtgtggcc atgttggcag aactgaagaa gttttactga cggtcaagat attccttctc atcatttctc ttcattgtct tctgtgtcgt tctggtaaca tccctggag aagatactga taattccagt ttgtcaccac caccctgctaa attatctgtt gtcagttttg cccctcctc caatgagggtt gaaacaacaa gcctcaatga tgttacttta agtttactcc ttcaaacga aacagaaaaa actaaatc ctatagtaaa aaccttcaat gtttcaggcg tcaaacccca gagaaatata tgcattttgt catctatttg caatgactca gcatttttta gaggtgagat catgttttcaa tatgataaag aaagcacigt tcccagaat caacataaa cgaatggcac cttaactgga gtcctgtctc taagtgaatt aaaacgtca gagctcaaca aaacctgca aacctaaagt gagacttact ttataatgtg tgctacagca gagggccaaa gcacattaaa ttgtacattc acaataaac tgaataatca aatgaatgca tgtgtgcaa tagcgcgttt ggaaagagta aagattcgac caatggaaca ctgctgtctg tctgtcagga taccctgccc ttctcccca gaagagtttg gaaagcttca gtgtgacctg caggatccca ttgtctgtct tgctgacctt ccacgtggcc caccattttc ttccagccaa tccatcccag tgggtccctg ggccactgtg ctttccagg tcccaaaag tacctctttt gctgagctc cagattattc acctgtgacc cacaatgttc cctctccaat aggggagatt caacctctt caccagacc ttacgtctcc atagcttcca gccctgccat tgacatgcc ccacagtctg aacgatctc ttccctatg ccccaaaccc atgtctccg caccacacct cctgtgaaag cctcatattc ctctccacc gtgtctgccc ctgcgaatgt caacactacc aggcacctc ctgtccagac agacatctgc aacaccagca gtatttctga tcttgagaac caagtgttc agatggagaa ggctctgtcc ttgggcagcc tggagcctaa cctgcagga gaaatgatca accaagtcag cagactcctt cattccccc ctgacatgct ggcccctctg gctcaagat tctgaaagt agtggatgac attggcctac agctgaactt ttcaaacag actataagtc taacctccc ttctttggct ctggctgtga tcagagtga tgccagtagt ttcaacacaa ctacctttgt ggcccaagac cctgcaaatc ttcagggttc tctggaacc caagctcctg agaacagtat tggcacaatt actcttctt catcgtgat gaataattta ccagctcatg acatggagct agctccagg gtccagtcca attttttga aacacctgct ttgtttcagg atccttccct ggagaaacct tctctgatca gctacgtcat atcatcgagt gttgcaaac tgaccgtcag gaacttgaca agaaagtgca cagtccactt aaagcacatc aaccgagcc aggatgagt aacagtga gaagtattt ggactttgg cagaaatggt ggcaaggag gctggtcaga caatggctgc tctgtcaag acaggagatt gaatgaacc atctgacct gtaccatct acaagcttc ggcttctgc tggacctatc taggacatct gtgtgcctg ctcaaatgat ggctctgac ttcatcat atattgttg tgggcttca tcaatttttc tgcagtgc tcttgaacc tacatagctt ttgaaaaagat ccggaggat taccctcca aaatcctcat ccagctgtgt gctgctctgc ttctgtgaa cctggtctc ctctggact cgtggattgc tctgtataag atgcaaggcc tctgcatctc agtggctga ttcttcat attttctctt ggtctcattc acatggatgg gctagaagc attccatatg tacctggccc ttgtcaaat atttaatact tacatccgaa aatcacct taaattctgc attgtcggtt ggggggtacc agctgtggtt gtgaccatca tctgactat atcccagat	

428 42697 G Protein-
Coupled NP_005747.1 MFESVRQCGH VGRTEEVLLT FKFLVLICL HVLVLTSLDE DTDNSSLSP PAKLSVVSEFA P
PSSNEVETTS INDVTLISLP SNETEKTIT IVKTFNAGSV KQPNICNLS SICNDSAFFR

Receptor
GPR64

GEIMFOYDKE STVPQNHIT NGTLTGLSL SELKRSEINK TLQTLSETYE IMCATAEAQ
TLNCTFTIKL NNTMNACAAI AALERVKIRP MEHCCSVRI PCPSSPEELG KLOCDLQDPI
VCLADHPRGP PFSSQSIPV VPRATVLSQV PKATSEAPP DYSPTHNV SPGEIQPLS
PQPSAPIASS PAIDMPPQSE TISSPMPQTH VSGTPPVKA SFSSPTVSAP ANVNTTSAPP
VQTDIVNTSS ISDLENVQLQ MEKALSIGSL EPNLAGEMIN QVSRLLHSP DMLAPLAQRL
LKVVDDIGLQ LNFSTNTISL TSPSLALAVI RVNASSTNT TFVAQDPANL QVSLETOAPE
NSIGTITLPS SLMNLPADH MELASRVQFN FETPALFQD PSENLISLIS YVISSVANL
TVRNLTNRVT VTLKHINPSQ DELTVRCVFW DLRNGRGVW WSDNGCSVKD RRLNETICTC
SHLTSFGVLL DLSRTSVLPA QNMALTFITY ICGGLSSIFL SVTLVTYIAF EKIRRDYPSK
ILIQLCRAALL LNLVFLDLS WIALYKMQGL CISVAVELHY FLVSVFTWVG LEAFHMYLAL
VKVFNTYIRK YILKFCIVGW GVPAAVVTII LTISPNDYGL GSYGKFPNGS PDDFCWINNN
AVFYITVVG YFCVIFLLNVS MFIWLVQLC RIKKKKQLGA QRKTSIQDLR SIAGLTFLLG
ITWGEAFFAW GPNVTFMYL FAIFNTLQGF FIFIFYCVAK ENVRKQWRRY LCCGKLRLAE
NSDWSKTATN GLKKQTVNQ VSSSSNSLOS SSNSTNSTTL LVNDCSVHA SGNNGMASTER
NGVSFSVQNG DVCLHDFGK QHMFENEKEDS CNGKGRMALR RTSKRGSJHF IEQM
gaacaaacat ggcgcctctg ggcgcgcctg gtcgcccgcc ctcgcgcgtt cctaggctgg A
ccgcgggccc ccgcgcctc ccaatgctg gttgctgca gttgctggcc gagcctggcc sapiens
tgggcgcgt ccacacctg gactcaagg atgatgtgag gcataaagt catctgaaca
ccttggtctt ctcaaggat ggtacatgg tggtagatgt cagtagcctc tcaatgaatg
agcctgaaga caaggatgtg actatgtgat ttagcctaga ccgtacaaa aatgatggct
tttcttctta cctggatgaa gatgtgaatt actgtatatt aaagaaacag tctgtctctg
tcacctttt aatcctagac atctccagaa gtgaggtaag agtaaatct ccaccagaag
ctggtaccca gttacaaaag atcatctca gcaggatga gaaagtcctt ggtcagagcc
aggagcctaa tgttaacctt gcttcagcag gcaaccagac ccagaagaca caagatgggtg
gaaagtctaa aagaagata gtaggattcaa aggccatggg agagaaatcc tttctgttc
ataataatgg tggggcagtg tcaatttcagt tttctttaa catcagcact gatgaccaag
aaggccttta cagtctttat tttcataaat gccttggaag agaattgcca agtgacaagt
ttacattcag ccttgatatt gagatcacag agaagaatcc tgacagctac ctctcagcag
gagaaattcc tctcccaaa ttatacatct caatggcctt tttctcttt cttctggga
ccatctggat tcaatcctt cgaaaacgac ggaatgatgt atttaaatc cactggctga
tggcgcccct tctttcacc aagctcttt ccttggtgtt ccatgcaatt gactaccact
acatctctc ccagggttc cctatcgaag gctgggctgt tgtgtactac ataactcacc
ttttgaaagg ggcgtactc ttcacacca ttgcactcat tggcactggc tgggctttca
ttaagcacat cctttctgat aaagacaaa agatcttcat gattgcat ccaactcagg
tcttggaata ttagcctac atcatcatag agtccacga ggagggcacg actgaatatg
gcttggtgaa ggactctta tttctggtcg acctgtgtg ttgtgtgctt atctcttcc
cagtggtgtg gtcaatcaga cattacaag aagcatcagc aacagatgga aaagctgcta
ttaacttag aaagctgaaa cttttcagac attattact cttgattgtg tgtacatat
acttcactag gatcattgca tttctctca aactcgtgt tccattccag tggagatggc
tctaccagct cctggatgaa acggccacac tggctcttct tgttctaacg ggtataaat
tccgtccggc ttcagataac ccctacctac aactttctca ggaagaagaa gacttgga

429 45937 KIAA1624 AF376725
Protein

430	45937	KIAA1624 Protein	AAK57695	<p>tggagtccgt tgtgacaaca tctgggggtga tggaaagtat gaagaaagtc aagaagtgta ccaacggctc cgtggagccc cagggcaggt gggaaagcgc cgtgtgacag agccgacctt gagatggca ctgtccaagg aaactgttaa ctattcata gtctattgg acagcaggag cagctctac agtgaactat tggcaccacc gacagtga caagggcaca tggctggagc acagtgcgc ggaacctga tttgtactc tctttatgg aaacgatctg tggctgttta gaggcagctg gatcctcttt caggcgggaa tggagggcgc ggcacagga ggagagagg aagagaaaag gaagaattca tttttaattt aggttcttt tttcttctt cattcggag ctctaagtg tatgcagttg tgaccccatg tgggggaag ttagcaagg acggctggtg gagggggaag gaggtgcga ggtgtctgtc tgatgcttta ggaatgtct actgaggacc ctgggactta agaagaagg cggggagagt gccattgctt gttgggaga caaaatgaa cgaacacagg tgactttgga agcaaaagt aaacccagt ttaggatga gcacctgcc caggattcct gccctggct ttgcccaga ccttattcc agatgctgag agtgaccagg acagcagctc ctgaggccca gtggtcttct tccaacagg aaagaaggc tgtgatgtcg ctgtcaggat catgccctgt ggcacagcac agtggtggg agtggtttt ctgactgaga tgttgctga tggatgaaa gaaatgtatt ttaagtta aaagcatta tctgtggcg tgtcctggac atccactccc tgacagcca gacgacact gctggcttc cttcatgct tgtggtttg ttgtgtttga tcagaatttt gggggaagt gaaatgttc ctcaaggagc agctgggggc agaattgta gtaattagc aaatactaa gtccaagca atcatccca ttaaagct tttcctgtag gctagttaga aaaaaaaaa aaaaaa MAALAPVGP ASRGPRLAG LRLPLMLGL QLLAEPGLR VHHLAKDDV RHKVLNFTG P FFKDGVMVN VSSLSNEPE DKDVTIGFSL DRTKNDGFS YLDEVDNYCI LKKQSVSVTL LILDISREV RVKSPPEAGT QLPKIIFSRD EKVLGSQEP NVNPASAGNQ TQKTQDGGKS KRSTVDSKAM GEKSFSVHNN GGAVSQFF NISTDQDEGL YSLYFHKCLG KELPSDKFTF SLDIEITEKN PDSYLSAGEI PLPKLYISMA FFFFLSGTIW IHLKRNRD VFKIHWLMAA LPFTKSLSLV FHAIDYHYS SQGFPIEWA VVYITHLLK GALLFITIAL IGTGWAFIGH ILSDKDKKIF MIVIPLOVLA NVAYIIIEST EEGTTEYGLW KDSIFLVDLL CCGAILFPVW WSIRHLQEAS ATDGKAAIL AKLKLFRHYI VLIVCIYFT RIIFLLKLA VPFQWKWLYQ LLDETATLVE FVLTYKFRP ASDNPYLQLS QEEEDLEMES VVTSGVMES MKKVKKVTNG SVEPQGEWEG AV</p>	Homo sapiens
431	50847	Neurotensin Receptor type 2	NM_012344	<p>gagtggagg gaggagcgc cggccgcggg agcgggatgg aaaccagag cccgcggccc A ccgcggccca gctcaaccc ggggctgagc ctggagcggc ggtgggctg ggacactgcg ctctgggcca agtgctgtt caccgcgtc tacgactca tctgggcgt gggcgcgcg ggcaatgcgc tgtccgtgca cgtgggtgctg aaggcgcggg cgggcgcgc ggggcgcctg cgccaccacg tgtcagctt ggcgtcgcg ggcgtgctgc tgcgtgctgt cggcgtgcg gtggagctct acagcttctg gtggttccac taccctggg tcttcggca cctgggctgc cgcggtact acttcgtgca cgagctgtgc gcctacgcca cgggtgctgag cgtggcaggc ctgagcgcg agcgtgctt agcgtgtgc cagccctgc gtcccgag cctgctgag ccagcgcgga cccggtggtt ggtggcgtc tcgtggcgg cctcgtcgg cctcgcctg cccatggccg tcatcatggg gcagaagcac gaactgaga cggcgagcgg ggagccggag ccgcctcgc gagtgtgac ggtgctggtg agccgacccg cgtcccaagt ctttatacag gtgaatgtgc tgggtcctt cgtgctccc ttggcactaa ctgctttcct gaatggggtc</p>	Homo sapiens

432	50847	Neurotensin Receptor type 2	NP_036476.1	PSSNPGLSLD ARLGVDTRLW AKVLFTALYA LIWALGAAGN ALSVHVWLKA P RAGRAGRLRH HVLSLALAGL LLLLVGVPVE LYSFVWFHYP WVFGLGCRG YFVHELCAV ATVLSVAGLS AERCLAVCQP LRARSLTPR RTRWLVALSW AASLGALPM AVIMGQKHEL ETADGEPEPA SRVCTVLVSR TALQVFIQVN VLVSVFLPLA LTAFLNGVTIV SHLLALCSQV PSTSTPGSST PSRLELSEE GLLSFIVWKK TFIQGGQVSL VRHKDVRRIR SLQRSVQVLR AIVVMYVICW LPYHARRIMY CYVPDDAWTD PLYNFYHYFY MVTNITLFVS SAVTPLLYNA VSSSRFKLFL EAVSSLCGEH HPMKRLPPKP QSPTLMDTAS GFQDPPETRT	Homo sapiens
433	53440	G Protein- Coupled Receptor LS53440	AX107037	cagagaggct gtatttcagt gcagcctgcc agacctcttc tggaggaga ctggacaaaag A ggggtcacac attccttcca taagggttag cctctacctg cctggtgctg gtcacagttc agcttcttca tgatggtgga tcccaatggc aatgaatcca gtgtacata ctteatccta ataggcctcc ctggtttaga agaggctcag ttctggttgg ccttccatt gtgtccctc taccttattg ctgtgctagg taacttgaca atcatctaca ttgtgcggac tgagcacagc ctgcatgagc ccatgtatat atttcttgc atgctttcag gcattgacat cctcatctcc acctcatcca tgcccaaaat gctggccatc ttctggttca attccactac catccagttt gatgcttgc tgctacagat ttgtgccatc cactccttat ctggcatgga atccacagtg ctgctggcca tggcttttga cgcctatgtg gccatctgtc acccactgcg ccatgccaca gtacttacgt tgcctcgtgt caccaaaatt ggtgtggctg ctgtgggtcg gggggtgca ctgatggcac ccttctctgt cttcatcaag cagctgacct tctgcccctc caataccctt tccattcct actgcctaca ccaagatgtc atgaagctgg cctgtgatga tatccgggtc aatgtcgtct atggccttat cgtcatcacc tccgccattg gccggactc acttctcatc tccttctcat atctgcttat tcttaagact gtgttgggct tgacacgtga agccaggcc aaggcatttg gcacttgcgt cctcatgtg tgtgctgtgt tcatattcta tgtaccttc attggattgt ccattggtgca tgccttttag aagcggcgtg actctccgct gccgtcatc ttggccaata tctatctgct ggttctctct gtgtctcaac caattgtcta tggagtgaag acaaaggaga ttcgacagcg catccttcga ctttccatg tggccacaca cgtctcagag ccctagggtg cagtgatcaa acttcttttc cattcagagt cctctgattc agattttaat	Homo sapiens

434	53440	G Protein- Coupled Receptor LS53440	CAC38935.1	<p>gttaacattt tggaagacag tattcagaaa aaaaatttcc ttaataaaaa atacaactca gacccctcaa atatgaact ggttgggaaa tctccatttt tccaatatta tttcttcttt tgttttcttg ctacataata ttattaatac cctgactagg ttgtggttgg aggtttatta cttttcattt taccatgcag tccaaatcta aactgcttct actgatggtt tacagcattc tgagataaga atggtacatc tagagaacat ttgccaaagg cctaagcacg gcaaaaggaaa ataaacacag aataataata aatgagataa tctagcttaa aactataact tccctcttcag aactcccaac cacattggat ctacagaaaa tgctgtcttc aaaaagactt ctacagagaa gaaataattt ttctcttgga cactagcact taaggggaag attggaagta aagccttgaa aagagtacat ttacctacgt taatgaaagt tgacacactg tctgagagt ttccacagca tatggaccct gtttttctta tttaattttc ttatcaacc tttaattagg caaagatatt atagtagccc tcattgtagc catgggaaaa ttgatgttca gtggggatca gtgaattaaa tggggtcata caagtataa aattaaaaa aaaaagact tcatgcccaa tctcatatga tgtggaagaa ctgttagaga gaccaacagg gtatgggtt agagatttcc agagtcttac attttctaga ggagttattt aatttctct cactcatcca gtgttgtatt taggaatttc ctggcaacag aactcatggc tttaatccca ctagtattg cttattgtcc tgggtccaatt gccaatccac tgtgtcttgg aagaagtgt ttctaggttc accattatgg aagatttcta ttcagaaagt ctgcataagg cttatagcaa gttatttatt tttaaaaagt ccataggtga ttctgatagg cagtgaaggt agggagccac cagttatgat gggaaagtatg gaatggcagg tcttgaagat aacatggcc ttttgagtgt gactctgagc tggaaagtga gggaaatcttc aggaccatgc tttatttggg gctttgtgca gtatggaaac gggactttga gaccaggaaa gcaatctgac ttaggcatgg gaatcaggca tttttgtctc tgaggggcta ttaccaaggg ttaatagggt tcatcttcaa caggatatga caacagtgtt acccaagaaa ctcaaatatc aaatactaaa acatgtgatc atatatgtgg taagtttcat tttcttttc aatcctcagg ttccctgata tggattccca taacatgctt tcatccctt ttgtaatgga tatcatattt ggaaatggct atttaatact tgtatttgtc gctggactgt aagcccatga gggcactgtt tattattgaa tgtcatctct gttcatcatt gactgctctt tgctcatcat tgaatcccc agcaaatgac ctagaacata atagtgttca tgcttgacac cgtttatttt tcatcaaac tgattccttc tgtcctgaac acatagccag gcaatttcc agccttcttt gacttgggta ttattaatc ctggccatta cttccaatgt gactggaagt gacatgtgca atttctatc ctggctcata aaacctccc atgtgcagcc ttctatgttg acattaaatg tgacttggga agctatgtgt tacacagagt aaatcacag aagcctggat tctgaaaaa actgtgcaga gccaaacctc tgtcatattg aactcccat tgtatttga cgaggcaggt ggataagtga aaaaaaagt actattgtgt caagaaaaa aaaaaaaa aaaaaaaa aaaaaaaa aaaaaa</p> <p>MMVDPNGNES SATYFILIGL PGLEEAAQFWL APPLCSLYLI AVLGNLTIIY IVRTEHSLHE P PMYIFLCMLS GIDILISTSS MPKMLAIFWF NSTTQFDAC LLQFAIHSI SGMESTVLLA MAFDRYVAIC HPLRHATVLT LPRVTKIGVA AVVRGAALMA PLPFIKQLP FCRSNILSHS YCLHQDWMKL ACDDIRNVV YGLIIVISAI GLDSLISFS YLLILKTVLG LTREAQAKAF GTCVSHVCAV FIFYVFFIGL SMVHRFSKRR DSPLPVLAN IYLLVPPVLN PIVYGVKTKE IRQRIILRFH VATHASEP</p>	Homo sapiens
-----	-------	--	------------	---	-----------------

atgggttccc cgcgagggtc cgggcagcca gggcgccgc cgcgcgcgc accgcgcgc A
 gcgcgcctgc tactgtact gctgtgccc ctgtctgtgc ctctggcgc cggggcctgg
 ggctgggcgc gggcgccccc cggcgccgc cccagcagcc cgcgcctctc catcatgggc
 ctcatgccc tcaccaagga ggtggccaa ggcagcatcg ggcgcggtgt gctccccgc
 gtggaactgg ccctcagga gatccgcaac gagtcaactcc tgcgccccta ctctctgac
 ctgcggctct atgacacgga gtgcgacaac gcaaaagggt tgaagcctt ctacgatgca
 ataaatacy ggcggaacca ctltgaggtg ttgtgagcgc ttctctttgc tgaaccacg
 atcattgcag agtccctcca aggttgaat ctgttgcagc ttctctttgc tgaaccacg
 cctgttctag ccgataagaa aaaataccct tatttctttc ggaccgtccc atcagacaat
 gcggtgaatc cagccattct gaagtgtctc aagcactacc agtggaaagc cgtgggcacg
 ctgacgcaag acgttcagag gtctctgag gtgcggaatg acctgactgg agttctgtat
 ggcgaggaca ttgagatttc agacacggag agctctctca acgacccctg taccagtgtc
 aaaaagctga aggggaatga tgtcggatc atccttgcc agtttgacca gaatatggca
 gcaaaagtgt tctgttgtgc atacgaggag aacatgtatg gtagtaata tcagtggatc
 attccgggct ggtacgagcc ttcttgttgg gageaggtgc acacggaagc caactcatcc
 cgtgcctcc ggaagaatct gcttgcctgc atggagggt acattggcgt ggatttcgag
 cccctgagct ccaagcagat caagaccatc tcaggaaaga ctccacagca gtatgagaga
 gagtacaaca acaagcgtc aggcgtgggg cccagcaagt tccacgggta cgcctacgat
 ggcatctggg tcatcgccaa gacactgag agggccatgg agacactgca tgcagcagc
 cggcaccagc ggcaccagga ctccaactac acgagaccaca gcctgggcag gatcatctc
 aatgccatga acgagaccaa ctcttcggg tccacgggtc aagtgtatt ccggaatggg
 gagagaatgg ggaccattaa attactcaa ttccaagaca gcaggagggt gaagtggga
 gagtacaacg ctgtggccga cacactggag atcatcaatg acaccatcag gttccaagga
 tccgaaccac caaagacaa gaccatcctc ctggagcagc tgcggaagat ctccctacct
 ctctacagca tccctctgc cctaccatc ctgggatga tcatggccag tgcctttctc
 ttcttcaaca tcaagaaccg gaatcagaag ctcatataaga tctcagatcc atacatgaac
 aacottatca tcttggagg gatgctctcc tatgcttcca tatttctctt tggccttgat
 ggatcccttg tcttgaaaa gaccttgaa acactttgca ccgtcaggac ctggattctc
 accgtgggct acacgaccg ttttggggcc atgtttgcaa agacctggag agtccacgcc
 atcttcaaaa atgtgaaaat gaagaagaag atcatcaagg accagaaact gcttgtgac
 gtggggggca tgcgtctgat cgacctgtgt atcctgatct gctggcaggc tgtggacccc
 ctgcgaagga cagtggagaa gtacagcatg ggcgcggacc cagcaggacg ggatatctcc
 atccgcccct tccctggagca ctgtgagaac acccatatga ccatctggct tggcatcgtc
 tatgcctaca agggacttct catgtgttc ggttgttct tagcttggga gaccgcaac
 gtcagcatcc ccgcactcaa cgacagcaag tacatcggga tgaagtcta caactggggg
 atcatgtgca tcatcggggc cgctgtctcc ttcttgacc gggaccagcc caatgtgca
 ttctgcatcg tggctctggt ccatctctc tgcagacca tccctctctg cctgtattc
 gtgcggaagc tcatcaccct gagaacaaac ccagatgcag caacgcagaa caggcgattc
 cagttcactc agaatacga gaaagaagat tctaaaaagt ccacctcgt caccagtgtg
 aaccaagcca gcacatccc cctggagggc ctacagtcag aaaaccatcg cctgcgaatg
 aagatcacag agctggataa agacttgga gaggtcacca tgcagctgca ggacaccca

436	54053	Gaba (b) Receptor 2	NP_005449.1	<p>gaaaagacca cctacattaa acagaaccac taccaagagc tcaatgacat cctcaacctg gaaaacttca ctgagagcac agatggagga aagccattt taaaaatca cctcgatcaa aatccccagc tacagtggaa cacaacagag ccctctcgaa catgcaaaaga tccatagaa gatataaact ctccagaaca catccagcgt cggctgtccc tccagctccc catcctccac cagcctacc tccatccat cggaggcgtg gagcgcagct gtgtcagccc ctgctgcagc cccaccgcca gcccccgcca cagacatgtg ccaccctct tccgagtcac ggtctcgggc ctgtaa</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>MASPRRSQGP GRPPPPPPPP APLLLLLLLP LLLPLAPGAW GWARGAPRPP PSSPPLSIMG P IMPLTKEVAK GSIGRGVLP VELAIEQIRN ESLLRPVFLD LRLYTECDN AKGLKAFYDA IKYGNHLMV FGVCPSPVTS IIAESLQGNV LVQLSFAATT PVLADKKYP YFFRTVPSDN AVNPAILKLL KHYQWKRVGT LTQDVQRFSE VRNDLTGVLY GEDIEISDTE SFSNDPCTSV KKLKGNDVRI ILGQFDQDMA AKVFCCAYEE NMYGSKYQWI IPGWYEPSWW EQVHTEANSS RCLRKNLLAA MEGYIGVDFE PLSSKQIKTI SKTPQOYER EYNKRSGVG PSKFHGYAYD GIWVIKTLQ RAMETLHASS RHQRIQDFNY TDHTLGRILL NAMNETNFFG VTGQVFRNG ERMGTIKFTQ FQDSREVKVG EYNVADTILE IINDTIRFQG SEPPKDKTII LEQLRKISLP LYSILSALTI LGMIMASAFI FFIKNRNQK LIKMSPPYMN NLIILGGMLS YASIFLFGLD GSFVSEKTFE TICTVTRTWIL TVGYTTAFGA MEAKTWVRVHA IFKNVMMKKK IIKDQKLLVI VGGMLLIDLC ILLICQAVDP LRRTVEKYSM EPDPAGRDIS IRPLEHCEN THMTIWLIV YAYKGLMLF GCFLAWETRN VSIPALNDSK YIGMSVYVNG IMCIIGAASV FLTRDQPNVQ FCIVALVIF CSTITLCLVF VPKLITLRN PDAATONRRF QFTQNKQKED SKTSTSSTVS NQASTSRLEG LQSENHRLRM KITELDKDLE EVTMQLQDTP EKTQYIKQNH YQELNDILNL GNFTESTDGG KAILKNHLDQ NPQLQWNTTE PSRTCKDPIE DINSPHEIQR RLSLQLPILH HAYLPSIGGV DASCVSPCVS PTASPRHRHV PPSFRVMVSG L</p>	Homo sapiens
437	55728	ETL protein	NM_022159	<p>gtgaaattta aactccagtc ctgtggcgaa aatgctaatt gcactaacac agaaggaagt A tattattgta tgtgtgtacc tggcttcaga tccagcagta accaagacag gtttatcact aatgatggaa cgtctgtat agaaaatgtg aatgcaaaact gccatttaga taatgtctgt atagctgcaa atattaataa aactttaaca aaaatcagat ccataaaaga acctgtggct ttgtacaag aagctctatag aaattctgtg acagatcttt caccacacaga tataattaca tatatagaag tattagtga atcatcttca ttactaggtt acaagaacaa cactatctca gccaaggaca ccttttctaa ctcaactctt actgaatttg taaaaacctg gaataatttt gttcaagggt atacatttgt agtttgggac agttatctgt tgaatcatag gagaacacat cttacaanaa tcatgcacac tgttgaacaa gctactttaa ggatattcca gagcttccaa aagaccacag agtttgatac aaattcaacg gatatagtct tcaaaagttt cttttttgat tcataataca tgaacatat tcatctctcat atgaatatgg atggagacta cataaatata tttccaaaaga gaaaagctgc atagtattca aatggcaatg ttgcagttgc attttatat tataagagta ttggtccttt gctttcatca tctgacaact tcttattgaa acctcaaaat tatgataatt ctgaagagga ggaagagtc atatcttcag taatttcagt ctcaatgagc tcaaaccac ccacattata tgaacttgaa aaaataaac ttacattaaag tcatcgaag gtcacagata ggtataggag tctatgtgca ttttgaatt actcacctga taccatgaat ggcagctggt cttcagagggt ctgtgagctg acatactcaa atgagaccca cacctcatgc cgctgtaac acctgacaca ttttgcaatt ttgatgtcct ctggtccttc cattggtatt</p>	Homo sapiens

438	55728	ETL protein	NP_071442.1	MCVPGFRSSS NQDRFITNDG TVCIENVNAN CHLDNVICIAA NINKTLTKIR SIKEPVALLQ P EVYRNSVTDL SPTDIITYIE ILAESSLLG YKNWTISAKD TLSNSTLTFE VKTVNNFVQR DTFVWWDKLS VNHRRTHLTK LMHTVEQATL RISQSFQKTT EFDNSTDIA LKVFFFDSYN MKHIHPHMNM DGDYINIFPK RKAAYDSNGN VAVAFLYKS IGPLISSSDN FLKPKQNYDN SEEEERVISS VISVSMSSNP PTLYELEKIT FTLSHRKVTD RYRSLCAFWN YSPDTMNGSW SSEGCELTYS NETHTSCRCN HLTHEAILMS SGPSIGIKDY NILTRITQLG IISLICLAI CIFTWFEESE IQSTRTHHK NLCCSLFLAE LVFLVGINTN TNKLFCISIIA GLLHYFFFLAA FAWMCIEGIIH LYLIUVGVIIY NKGFHLKNEY IFGYLSPAVV VGFSALGYR YYGTTKVCWL STENNFIWSF IGPACLIILV NLLAFGVIIY KVFRHTAGLK PEVSCFENIR SCARGALALI FLLGTTWIFG VLHVHVASV TAYLFTVSNA FQGMFIFLFL CVLSRKIQEE YYRLEKQVPC CFGCLR	Homo sapiens
439	56923	Muscarinic acetylcholine Receptor M3	NM_000740	atgacacctgc acaataacag tacaacctcg cctttgtttc caaacatcag ctcctcctgg A atacacagcc cctccgatgc agggctgccc ccgggaaccg tcaactattt cggcagctac aatgtttctc gagcagctgg caatttctcc tctccgacg gtaccaccca tgaccctctg ggaggtcata ccgtctggca agtggctctc atcgcttctc taacggggcat cctggccttg gtgaccatca tcggcaacat cctggtaatt gtgtcattta aggtcaacaa gcagctgaag	Homo sapiens

440	56923	Muscarinic acetylcholin e Receptor M3	NP_000731.1	<p>acgggtcaaca actacttctt ctttaagcctg gcctgtgccc atctgattat cggggtcatt tcaatgaatc tgtttaogac ctacatcatc atgaatcgat gggccctagg gaacttgccc tgtgacctct ggcttgocat tgactacgta gccagcaatg cctctgttat gaatcttctg gtcatcagct ttgacagata cttttccatc acgagccgc tcacgtaccg agccaacga acaacaaaga gagecgtgtg gatgatcggg ctggccttgg tcattcctt tgtcctttgg gtcctcgcca tcttgctctg gcaatacttt gttggaaaga gaactgtgcc tccgggagag tgtcttcttc agttcctcag tgagcccacc attacttttg gcacagccat cgtgtgcttt tatatgctg tcaccattat gactatttta tactggagga tctataagga aactgaaaag cgtacaaaag agcttgctgg cctgcaagcc tctgggacag aggcagagac agaaaacttt gtccacccca cgggcagttc tgaagctgc agcagttacg aacttcaaca gcaagcatg aaacgctcca acagaggaa gtatggccgc tgccacttct gttcacaac caagagctgg aaacccagct ccgagcagat ggaccaagac cacagcagca gtgacagttg gaacaacaat gatgtgctg cctccctgga gaactccgc tcctccgacg agggagcat tggtcccgag acgagagcca tctactccat cgtgctcaag ctctcgggtc acagacccat cctcaactcc accaagtac cctcatcgga caactcgag gtgcctgagg aggagctggg gatggtggac ttggagagga aagccgacaa gctgcaggcc cagaagagcg tggacgatgg aggcagtttt ccaaaaagct tctccaagct tccatccag cttaggtcag ccgtggacac agtaagact tctgacgtca actcctcagt ggttaagagc acggccactc tacctctgtc cttaaggaa gccactctgg ccaagaggtt tgcctgtaag accagaagtc agatcactaa gcgaaaaagg atgtccctgg tcaagagaa gaaagcggcc cagaccctca gtgcgatctt gctgccttc atcatcactt ggaccccata caacatcatg gttctgtga acacttttg tgacagctgc ataccacaaa ccttttgaa tctgggctac tggctgtgct acatcaacag caccgtgaac cccgtgtgct atgctctgtg caacaaaaa ttcagaacca ctttcaagat gctgctgctg tgccagtgtg aaaaaaaa gaggcgaag cagcagtaac agcagagaca gtgggtcatt tttcacagc gcgcaccga gcaggccttg tag</p>	Homo sapiens
441	57180	Leukotriene B4 Receptor BLTR2	NM_019839	<p>GGHTVMQVVF IAFLTGILAL VTIIIGNILVI VSEKVNKQIK TVNNYFLLSL ACADLIIGVI SMNLFITYII MNRWALGNLA CDLWLADYV ASNASVMNLL VISEDRYFSI TRPLTYRAKR TTKRAGVMIG LAWVISFVLW APAILFWQYF VGKRTVPPGE CFIOFLSEPT ITFGTAIAAF YMPVTIMTIL YWRIYKETEK RTKELAGLOA SGTEAETENF VHPGSSRSC SSYELQQQSM KRSNRRKYGR CHFWEITKSW KPSEQMDQD HSSSDSWNNN DAAASLENSA SSDEEDIGSE TRAIYSIVLK LPHGSTILNS TKLPSSDNLQ VPEEELGMDV LERKADKLOA QKSVDDGGSF PKSFSKLPIQ LESAVDTAKT SDVNSSVGKS TATLPLSPE ATLAKEFALK TRSQITKRKR MSLVKEKKAQ QTLAILLAF IITWTPYNIM VLVNTFCDSK IPKTFWNLGY WLCYINSTVN PVCYALCNKT FRTTFKMLLL CQCDKKRRRK QQYQQRQSVI FHKRAPEQAL gaaactggcc ctggccctga accaaatacc ttgaacctc gtaaaccca taccctgacc A ccctgtttt ggataaccc aggtagaaca actctctc actgtctgtt gtgaggatac gctgtagccc actcattaag tacattctcc taataaatgc tttgactga tcacctgccc agtcttttgt cttgggcaat ctatacttt cttagaggtt cccaaggcct actgaaggga cttaacatac tcttaatggc ttctctctct ctgtgtttac cttatgccct cacttctga gttaacctcc caaatacag atcacctga cccaagcct tagctcaaga atacaggatc</p>	Homo sapiens

acctgtaccc aagcccttag ctcaagctct gctttggaag aacccaaact aagacagtgc
tcctggtgc ctcccaagc aacctcaagt tctggtgttt acttgagcag aggcctttct
tttcccttcc ccaagctcta tccatctgc agggccccc ccaatctctt catttccaag
ttttgcttga cttttocaag aggagagggc tgcctcttag tatgcoccta ctcacccctt
cctttcttgt cttgtatcct ggtgcagcct ggtaatgggg cctcttcaty gttgtgtgtc
atgactccct aaccattatg cctccatgca tcccctgttc ctctggaaac ctagcaccat
gccttacatg gaaaagctgt cattgacagc ccgtgagagt ccctgagggg gtagtgactg
gggcagggcc tgaggcaaga ggtgggagga ggtaggaggg caggggctca gccggaccag
gagactggaa acaggcaagg ataaggcagg tgggggactg agtgttttgg gtacacctg
caggccagag agaccaggca acatacacac tgcagaaggt gggctgggag gattggggcc
agagctgggg gagggatgag aacagaagca ggaccagagt tcagcagagt cctcctatct
ccttccacca ccagggaatc ttactgccc acttcagctt gtgctgtttc ctggcaaggc
aggctctcac atgcctggac gcctgggtgc gttggtgatg ggaaggagca ggtgagggga
ggggcccccag gagaggccca ggtaggacct catcttgtcc ctcccattc ttgtcttacc
ctctgcaaat gtgataggca caggacagga tlaggcacct cgcctactgc tgcctaacct
ttcagcttct ccaggccccc aatcctgctt gctcccagct tggtaagtag atctgtgcac
gtccctttac accccaccat ccagttttgc ccagatgtgc tagaatgggg ctggacaaaag
aaggaggggc cagactagag gagtgtgtgt agagatagtgc acagcctggg gtgaggactt
tatgcctgtt taccactgag ctctgggaag gaggccagga gtggggcagg teactgact
gggagcaggg gatctgggtt ccaagaagga gttgtgtttg agtggggttc tgggtcctcg
tggaagtcaag gactccagag cagaaaagag gcaggctgca ggaagttaa gaggaggcat
ggcaccttct catcgggcat cacaggtggg gttttgccc accctgaac gccctctgtg
gcgccttcca cccacctgta ggccagaaag gatgtcgttc tgctaccgtc cccagggaa
cgagacactg ctgagctgga agacttcgcg ggccacagc acagccttcc tgcgtctggc
ggcgtgctg gggctgctg gcaacggctt cgtggtgttg agctggcggt gctggcgcc
tgcacggggg cgacgctgg cgggcacgct tgtgctgcac ctggcgctgg ccgacggcgc
ggtgctgtg ctacgcccgc tctttgtggc ctctctgacc cggcaggcct ggcgctggg
ccaggcgggc tgcaaggcgg tgtactacgt gtgcgcgctc agcatgtacg ccagcgtgct
gtcacccgc ctgctcagcc tgcagcgtg cctgcagtc acccgccct tectggcgc
tcggctgcgc agcccggccc tggcccgcc cctgtgtgtg gcggtctggc tggccgcct
gttgcctgcc gtcccggccc cgtctaccc ccacctgttg agggaccgcy tatgccagct
gtgccacccg tcgcgggtcc agccgcgc ccacctgagc ctggagactc tgaccgcttt
cgtgcttctt ttccgggtga tgcctggctg ctacagcgtg acgtgggac ggcgtgcggg
cgcccgtgg ggtccggggc ggcacggggc gcgggtgggc cggctggtga ggcctatcgt
gcttgccttc ggctgtctct gggccccccta ccacgcagtc aacctctgc agcggtgcg
agcgtggct ccacggaaag gggccttggc gaagctgggc ggaagcgcc agcgggcg
agcgggaact acggccttgg ccttcttcag ttctagctc aaccgggtgc tctacgtctt
caccgctgga gatctgtgc cccgggacag tcccgttct ctacggcgcc tcttcgaagg
ctctggggag gcccgagggg gcggccgctc tagggaaggg acctggagc tccgaactac
ccctcagctg aaagtgttg ggacggggcg cggcaatgga gaccggggg gttgggatgga
gaaggacggt ccggaatgg acccttgaca gcagaccct

Accession	Gene	Protein	Species
57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	Homo sapiens
442			
73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NM_014246	Homo sapiens
443			

aatgacaacg acccggtgtt cactgagccc acctacgagc ttctgtctgaa tgaggatgcg
gccgtgggga gcagcgtgct gacctgcag gcccgagcc gtgacgcca cagtgtgatt
acctaacagc tcacaggcgg caacacccgg aaccgtttg cactcagcag ccagagaggg
ggcgccctca tcacctggc gctacctctg gactacaagc aggagcagca gtacgtgtctg
gcggtgacag catccgacgg cacacggctc cacactcgc atgtcctaata caacgtcact
gatgccaca ccacagggcc tgtctttcag agtcccat acacagtga gtgcagtga
gacaggcctg tggcacctc cattgtacc ctcatgcca acgatgagga cacaggagag
aatgcccga tcacctacgt gattcaggac cccgtgcgc agttccgcat tgaccccgac
agtggcacc tgtaacacct gatggagctg gactatgaga acagggtcgc ctacacgtg
accatcatgg ccagagacaa cggcatcccg cagaaatcag acacaccac ctagagatc
ctcatcctcg atgccaatga caatgcacc cagtctcgt gggatttcta ccagggttc
atctttgagg atgtccacc ctcgaccagc atcctccagg tctctgccac ggaccgggac
tcagggtcca atggggtct gctgtacacc ttccagggtg gggacgacgg cgatggggac
ttctacatcg agccacgctc cggltgtatt cgcaccagc gccggctgga ccgggagaa
gtggccgtgt acaacctttg ggtcttggt gtggatcggg gactccac tccccttagc
gcctcggtag aaatccaggt gacctcttg gacattaatg acaatgcccc catgtttgag
aaggacgaac tggagctgtt tgttgaggag acaaacccag tgggtcgtt ggtggcaaa
atctgtgcta acgacctga tgaaggccct aatgccaga tcatgtatca gattgtgaa
ggggacatgc gcatttctt ccagctggac ctgctcaacg gggacctcgc tgcattggtg
gagctgact ttgaggctcg ccgggagtat gtgctgtggt tgcaggccac gtccgtccg
ctggtgagcc gagccacggt gcacatcct ctctgtgacc agaatgacaa ccgcctgtg
ctgcccact tccagatcct cttaacaac tatgtacca caagtccaa cagtttccc
accggcgtga tggcgtgcat cccggcccat gaccgacag tgcagacag cctcaactac
accttctgac agggcaacga gctgcgctg ttgtctgtg acccgccac gggcgaaactg
cagctcagcc gcgacctgga caacaacgg ccgttgagg ccgtcatgga ggtgtctgtg
tctgatggca tccacagcgt caggccctc tgcacctgc gtgtaccat catcacggac
gacatgctga ccaacagcat cactgtccg ctggagaaca tgtcccagga gaagtctctg
tcccgtgctg tggccctctt cgtggagggg gtggccgccc tgtgttccc caccaaggac
gacgtcttcg tcttcaact ccagaaacac accgacgtca gctccaaat cctgaacgtg
accttctcgg cgtgctgctc tggcgcgctc ctgacacca tctcccgtc ggaggacctg
caggagcaga tctacctgaa tggagcgtg cctgcgaga actacatgaa ggcgtgtcc
cccttcgacg acaacatctg cctgcgag cctcagctc ctacagtcca ccacctgct cttccggccc
gtctcgtgat tgcacagctc cgcgccttc ctacgtcca ccacctgct cttccggccc
atccacccca tcaacggcct gcgtgcgc tgcccgcgc gcttccacgg cactactgc
gagacggaga tgcacctctg ctactccgac ccgtgcgctg caacggccg ctgccgcagc
cgcgaggggc gctacacctg cgagtgttc gaggacttca ctggagagca ctgtgaggtg
gatgcccgct caggccgctg tgccaacggg gtgtcaaga acggggggac ctgcgtgaac
ctgctcatcg gcggttcca ctgcgtgtgt cctcctggcg agtatgagag gccctactgt
gaggtgacca ccaggagctt ccgcccag tccctgtca cctccgggg cctgagacag
cgcttccact tcacctctc cctcacgtt gccactcagg aaaggaacgg cttgtcttc
tacaacggcc gcttcaatga gaagcaacgac ttcatcgccc tggagatcgt ggacgagcag

gtgcagctca ccttctctgc aggcgagaca acaacgacgg tggcaccgaa ggttcccagt
ggtgtgagt acgggcggtg gcactctgtg caggtgaggt actacaacaa gcccaatatt
ggccacctgg gcttgcacca tgggccgtcc ggggaaaga tggcgtggt gacagtggat
gattgtgaca caacctggc tgtgcgtttt ggaagagaca tcgggaacta cagctgogct
gccaggggca ctacagaccg ctccaagaag tccctggatc tgaccggccc tctactcctg
gggggtgtcc ccaacctgcc agaagacttc ccagtgcaca accggcagtt cgtgggctgc
atgcggaacc tgtcagtcga cggcaaaaat gtggacatgg ccggattcat cgccaacaa
ggcaccgggg aaggctcgc tgcctggagg aactctgcg atgggaggcg gtgtcagaat
ggaggcaact gtgtcaacag gtggaatatg tatctgtgtg agttgccact ccgattcggc
gggaagaact gtgagcaagc catgacctac cccagctctc tcagcgttga gagcgtcgtg
tcctggagt acctgaacat catcatctct gtgcccgtgt accctggggt catgttccgg
accggaagg aggcagcgt tctgatggag gccaccagt gtgggcccac cagcttctgc
ctccagatcc tgaacaacta cctccagttt gaggtgtccc acggcccctc cgtgtggag
tcctgtatgc tgtccgggtt gcgggtgacc gacggggagt ggcaccacct gctgatcgag
ctgaagaatg ttaaggaggga cagtgaatg agcacctgg taccatgac ctggactat
gggatggacc agaacaaggc agatatcggg ggcattgttc ccgggctgac ggtaaaggagc
gtggtgtcgc gaggcgctc tgaagacaag gtctcgtgc gccgtggatt ccgaggctgc
atgcaggag tgaggatgg ggggacgcc accaacctgc ccacctgaa catgaacaac
gcactcaagg taagggtgaa ggcgggtgt gatgtgacg accctgtac ctcgagcccc
tgtccccca atagccgtg ccacgacgc tgggagact accctgcga gacatgggg
gggtacctg gaataaactg tgtggatgcc tgtcacctga accctgcga gaacatgggg
gcctgcgtgc gctcccccg ctccccgcag ggtacgtgt gcgagtgtg gccagtcac
tacgggccc actgtgagaa caaactcgac ctccgtgcc ccagaggctg gtgggggaac
cccgtctgtg gacctgcca ctgtccgtc agcaaggct ttgatccccg ctgtaataag
accaacggcc agtgccaatg caaggagaat tactaagc tctagccca ggacacctgt
ctgcccctgc actgcttccc ccattggctc cacagccgca cttagacat ggccaccggg
cagtgtgcct gcaagccccg cgtcatcgcc atctacaatg gctgtccca agcatttgag
gccgaggtca ccacgtcgc ctgtgaagtg gggcagccgg ctgctgtgcc atgccctaa
ggatccgttg gattgcggt ccgacactgc agcggggaga aggctggct gccccagag
ctctttaact gtaccacct ctctctctg gacctcaggg ccatgaatga gaagctgagc
cgcaatgaga cgcagggtga cggcgccagg gccctgcagc tggtagggc gctgcgcagt
gtacacagc acacggggcac gctcttggc aatgacgtgc gcacggccta ccagctgctg
ggccacgtcc ttacgacga gagctggcag cagggtctc accctggcgc cagcaggag
gccgacttc acgaggacgt catccactc ggcagcccc tcttggcccc agccaccag
gcggcgtggg agcagatcca gggagcgcag ggcggcacgg cacagtgtc ccggcgcctc
gagggctact tcagcaactg ggcacgcaac gtgcggcga cgtacctgc gcccttctc
atcgtcaccg ccaacatgat tcttgcgtc gacatcttg acaagttcaa ctttacggga
gccagggtcc cgcgattcga caccatccat gaagagtccc ccaggggagt ggagtccctc
gtctccttcc cagccgactt ctacagacca cctgagaaa aagaaggccc cctgctgagg
ccggctggcc ggaggaccac ccgcagacc acgcgccccg ggcctggcac cgagaggag

gccccgatca gcaggcgagg gcgacacct gatgacgctg gccagttcgc cgtcgctctg
gtcatcatt accgaccct ggggcagctc ctgcccagc gctacgacc cgaccgtcgc
agctccggt tgcctaccg gccatcatt aatacccca tggtagcac gctggtgtac
agcagggggg ctccgctccc gagaccctg gagggcccg tctgggtgga gttcgccctg
ctggaggtgg aggagcgaac caagcctgtc tgcgtttct ggaaccact cctggccgtt
ggtgggacgg gaggtggtc tggccggggc tgcgagctcc tgtccaggaa ccggacacat
gtcgccctgcc agtgcagcca cacagccagc tttcggtgc tcatggatat ctccaggcgt
gagaaacggg agtccctgcc totgaagatt gtacacctg ccgctgtgtc ctgtcactg
gcagccctgc tgggtgacct cgtccctctg agctctgtcc gcatgctgctg ctccaaactg
cacagcatt acaagcacct cgcctgtggc ctcttctct ctaagctggt gttcgtgatt
gggatcaacc agacggaaaa cccgtttctg tgcacagtgg ttgccatcct cctccactac
atctacatga gcaccttgc ctggacctc gtggagagcc tgcattgtcta ccgcatgctg
accgaggtgc gcaacatcga caccggggccc atgcggttct actacgtcgt gggctggggc
atccccgcca ttgtcacagg actggcggtc ggccctgacc ccagggcta cgggaacccc
gactttctgt ggtgtcgtc tcaagacacc ctgatttggg gctttgcggg gcccatcgga
gctgttataa tcatcaaac agtcacttct gtccatctg caaaggtttc ctgccaaga
aagcaccaat attatggga aaaaggatc gtctccctg tggagaccg attctcctg
ctgctgtcga tcagcgccac ctggctgctg gggctgctgg ctgtgaaccg cgatgcactg
agctttcact acctcttcgc catcttcagc ggcttcagg gcccttctg cctccttctc
cactgctgc tcaaccagga ggtccggaag cactctgaag gctgtctcgg cgggaggaag
ctgcacctgg aggaactcgc caccaccagg gccacctgc tgcgctgc cctcaactgc
aacaccaact tcggtgacgg gcctgacatg ctgctgacag acttggggcga gtccaccgcc
tcgctggaca gcctcgtcag gcatgaagg atccagaagc tcggcgtgtc ctctgggctg
gtgaggggca gccacggaga gccagacgcg tccctcatgc ccaggagctg caaggatccc
cctggccacg atccgactc agatagcgag ctgtccctgg atgagcagag cagctcttac
gcctctcac actcgtcaga cagcaggagc gatggggtgg gactgagga aaaatgggac
ccggccaggg gcgccttcca cagcacccc aaaggggagc ctgtggccaa ccacgttccg
gccggctggc ccgaccagag cctggctgag agtgacagt aggacccca cggcaagccc
cgctgaagg tggagacca ggtcagcgtg gagctgcacc gcgaggagca gggcagtcac
cgtggagagt acccccga ccaggagagc gggggcgag ccaggttgc tagcagccag
ccccagagc agaggaaaag catcttgaaa aataagtca cctaccgcc gccgctgacg
ctgacggagc agacgtgaa gggccggctc cgggagaagc tggcagactg tgagcagagc
ccacatcct cgcgcacgtc ttccctgggc tctggcgcc ccgactgcgc catcacagt
aagagccctg ggaggagcc ggggctgtgac cactcaacg ggggtggccat gaatgtgcg
actgggagcg ccagggccga tggctccgac tctgagaaac cgtgaggcaa gccgtcacc
ccacacagg tcgggcatca cctcagacc ttggagccca aggggccact gcccttgaag
tggagtgggc ccagagtgtg gcggtcccca tgggtgcagc ccccgactg atcatccaga
cacaaaggct ttggttctcc caggagctca gggcctgtca gactggtga caagtgcga
aggccacagg catgagggag gcgtggacca ctgggcccag accgtgagt cctaagactg
cagtcaagc cagactgag aggggacccc agactggcc cagaggctgg ccagagtca
ggaacgccg gcacagacca aagaccgcg tccagcccg ccaggcggg catctcatg

444	73584	Cadherin EGF NP_055061.1 LAG Seven- Pass G-Type Receptor 1 (CELSR1/Flam ingo)	cagtgcgag ccggtgctgg cagccccggc agtcctttgc aaaggcacc cttgtcttaa aatcacttcg ctatgtggga aaggtggaga tactttata tatttgtatg ggactctgag gaggtgcaac ctgtatatat atygattcg tgctgacttt gtatccccga gagatccatg caatgatctc ttgtgtcttt ctctgtcaag attgcaagtg tgtaactttaa tctggcatgt gttgacgaaa ctggtgcccc agcagatcaa aggtgggaaa tacgtcagca gtgggggctaa aaccagcggt ctagaagccc tacagctgcc ttcggccagg aagtggagat ggtgtgggcc ctccccgctg gccccctggg tccccagtg tcgctgtgtg tgcgtttgtc cctgtctgcc atctgccccg gctgtgtgaa ttcaagacag ggcagtgag cactaggcag gtgtgaggag ccctgctgag gtcactgtgg ggcactgttg ccacacgct gtcatatttc acctggtcat tctgtgacca ccaacccctc cctcacgcg tccccagtg gccggggagc tgcaggtggtg gatggctttg tccctttgctc ctgctccccg tgggacctgg gaccttaaa cgttgcaaggt tcctgatattg gacagaggtg tggggcccttc caggccgtta catacctcct gccaatctc taactctctg agactgcgag gatctccagg cagggttctc cctctctggag tctgaccaat tacttcattt tgcctcaaat ggccaattgt gcagagggag aaagccacag ccacactctt caacggttac caaactgttt ttggaaattc acaccaaggt cgggccact gcaggcagct ggcacagct ggcccgaggg gctgtggaac ggttcccgga actgtcagac atgtttgatt ttagcgtttc ctttgtctt caaatcaggt gcccaataaa gtgacagca cagctgcttc caaataggag aaaccataaa ataggatgaa aatcaagtaa aatgcaaaaga tgtccacact gttttaact tgacctgat gaaaatgtga gcaatgttag cagatgccta tgggagagga aaagcgtatc tgaaaatggt ccaggacag aggatgaaat gagatccac agtctcaca cctgaatgaa ttatacatgt gctttaccag gtgagtgtc ttctgaagat aaaaaactct agtcccttta aacgtttgcc cctggcgttt cctaagtacg aaaaggtttt taagtcttcg aacagctccc tttcatgact ttaacaggat tctgccccct gaggtgtaat tttttgttc tatttttttc cactgactcc acagccaaca tcacgaggtg taatttttaa tttgatcaga actgttacca aaaaacaact gtcagtttta ttgagatggg aaaaatgtaa acctatttt attacttaag actttatggg agagattaga cactggaggt ttttaacaga acgtgtattt attaatgttc aaaaacactg aattacaaat gagaagagtc tacaataaat taagattttt gaatttgtac ttctgcggtg ctgggttttc tccacaaca ccccccccc tccccatgcc caggtgtgcc gtggaaggga cgttttacgg acgtgcagct gagctgtccg tgtccccatgc tccctcagcc agtggaacgt gccggaactt ttgtccatt cctagttagg cctgccacag cctagatggg cagtttttgt ctttcacaaa atttgaggac tttttttttt tgcattatt tcttcagttt tctttcttg cactgatctt tctcctctcc tctgtgact ccagtgactc agacgttaga cctctgatg ttttccact ggtccctgag gctctgttc MAPPPPPVLP VLLLLAAAA LPAMGLRAA WEPVPVGGTR AFALRPGCTY AVGAACTPRA P PRELLDVGRD GRLAGRRRV GAGRLPLQV RLVARAPTA LSRRLRARTH LPCCGARARL CGTGARLCGA LCFVPVGGCA AAQHSALAAP TTLPACRCPP RPRPCPGRP ICLPPGGSVR LRLLCALRRA AGAVRVGLAL EAATAGTPSA SPSPSPPLPP NLPEARAGPA RRARRGTSGR GSLKFRPNPY QVALFENEPA GTLILQLHAH YTIEGEERV SYMEGLFDE RSRGYFRIDS ATGAVSTDSV LDRETKETHV LRKAVDYST PPRSATTYIT VLVKDTNDHS PVFEQSEYRE RVRENLEVG Y EVLTIRASDR DSPINANLRY RVLGGAWDVF QLNESGVS TRAVLDREEA AEYQLLVEAN DQGRNPGPLS ATATVYIEVE DENDNPQFS EQNYVVQVPE DVGLNTAVLR	Homo sapiens
-----	-------	--	---	-----------------

VQATDRDQGG NAAIHYSILS GNVAQGFYLH SLSGILDVIN PLDFEDVQKY SLSIKAQDGG
RPPLINSSGV VSVQVLDVND NEPIFVSSPE QATVLENVPL GYPVHIQAV DADSGENARL
HYRLVDTAST FLGGGSAGPK NPAPTDFPE QIHNSGMIT VCAELDREEV EHYSGVEAV
DHGSPPMSSS TSVSITVLDV NDNDPVFTQP TYELRLNEDA AVSSSVLTQ ARDRDANSVI
TYQLTGGNTR NREALSSQRG GGLITLALPL DYKQEQVYL AVTASDGTRS HTAHLINVT
DANTHRPVEQ SSHYTVSVSE DRPVGTSIAT LSANDEDTGE NARITYVIQD PVPQFRIDPD
SGTMYTMEL DYENQVAYTL TITMAQDNIGP QKSDTTILEI LILDANDNAP QFLWDFYQGS
IFEDAPPSTS ILQVSATDRD SGNGRLLYT FQGGDDGDGD FYIEPTSGVI RTQRRLDREN
VAVYNLWALA VDRGSETPLS ASVEIQVTIL DINDNAPFE KDELELFVEE NNPVGSVAK
IRANDPDEGP NAQIMYQIVE GDMRHHFFQLD LINGDLRAMV ELDFEVRRREY VLVVQATSAP
LVSRATVHIL LVDQNDNPPV LPDFQILENN YVTNKSNSFP TGVIGCIPAH PDVSDSLNY
TFVQGNELRL LLLDPATGEL QLSRDLNDR PLEALMEVSU SDGHSVTAF CTLRVTIITD
DMLTNSITVR LENMSQEKFL SPLALFVEG VAAVLSTTKD DVFENVQND TDVSSNINLV
TFSALLPGGV RGQFPSEDL QEIQIYLNRTL LTTISTORVL PFDDNICLRE PCENYMKCVS
VLRFDSAPF LSSITVLERP IHPINGLR CR CPPGFTGDYC ETEIDL CYSD PCGANGRCRS
REGGYTCCEF EDFTGEHCEV DARSGRANG VCKNGGTGVN LLIGGFHCVC PGEYERPYC
EVTTRSFPFQ SEVTRGLRQ RFHTISLTF ATQERNGLLL YNGRENEKHD FIALEIVDEQ
VOLTFSAGET TTTVAPKVPVS GVSDGRWHSV QVQYNNKPNL GHGLPHGPS GEKAVAVTV
DCDTTMAVRF GKDIGNYS CA AQGTGTGSKK SLDLTGPIILL GGVENLPEDF PVHNRQFVGC
MRNLSVDGKN VDMAGFIANN GTREGCAARR NFCDGRRCQN GGTCVNRWNM YLCECPLRFG
GKNCQAMPH POLFSGESV SWSDLNIIIS VPWYGLMFR TRKEDSVLME ATSGGPTSEF
LQILNNYLQF EVSHGSPDVE SVMLSGLRVT DGEWHLLIE LKNVKEDSEM KHLVTMTLDY
GMDQNKADIG GMLPGLTVRS VVVGASEDK VSVRRGFRGC MQGVRMGGTP TNVATLNMNN
ALKVRVKDGC DVDDPCTSSP CPENSRCMDA WEDYSCVCDK GYLGINCVDA CHLNPENMG
ACVRSPGSPQ GYVCEGSPH YGPYCNKLD LPCPRGWMGN PVCGPCHCAY SKGFDPDCKN
TNGQCQCKEN YYKLLAQDTC LPCDCFPHGS HSRTCMDATG QACKPGVIG RQCNRCNPF
AEVTTLGCEV IYNGCPKAFE AGIWWPQTKF GQPAAVPCPK GSVGNVAVRHC SGEKGWLPPE
LFNCTTISFV DLRAMNEKLS RNETQVDGAR ALQVRLARS ATQHTGTGFG NDVRTAYQLL
GHVLQHSWQ QGFDLAATQD ADFHEDVIHS GSALLAPATR AAWEQIQRSE GGTAQLLRL
EGYFSNVARN VRRTYLRPFV IVTANMILAV DIFDKENFTG ARVPRFDTIH EEFPRELESS
VSFPADFERP PEEKEGPLL R PAGRRTTPTQ TRPGPTERE APISRRRRHP DDAGQFAVAL
VIYRTLGQL LPERYDPDRR SLRLPHRPII NTPMVSTLIV SEGAPLPRPL ERPVLVEFAL
LEVEERTKV CWFVNHSLAV GGTGWSARG CELLSNRTH VACQCSHTAS FAVLMDISR
ENGEVLPLKI VTYAAVSLSL AALLVAFVLL SLVRMLRSNL HSIKHLAVA LFLSQLVEVI
GINQTNPFLL CTVVAILLHY IYMSTFAWTL VESLHVYRML TEVRNIDTGP MRFYVVGWG
IPAIVTGLAV GLDPQGYGNP DFCWLSLQDT LIWSFAGPIG AVIINTVTS VLSAKVSCQR
KHYYGKKG I VSLRTAFLL LLLISATWLL GLLAVNRDAL SEHYLFAIFS GLQGFVLLF
HCVLNQEVK HLGVLGGRK LHLEDSATR ATLLTRSLNC NTTFGDGPD LRTDLGESTA
SLDSIVRDEG IQKLGVSGL VRGSHGEPDA SLMPRCKDP PGHSDSDSE LSLDEQSSSY
ASSHSSDSED DVGAEKWD PARGAVHSTP KGDAVANHP AGWPDQSLAE SDESDPSGP
RLKVETKVS ELHREEQGS RGEYPPDQES GGAARLASSQ PPEQRKGILK NKVTYPPPLT

324/448

445	74514	5-HT5A Receptor	NM_024012	<p>LTEQTLKGRL REKLADCEQS PTSSRTSSLG SGGPDCAITV KSPREPGRD HINGVAMNVR TGSAQADGSD SEKP</p> <p>atggatttac cagfgaacct aacctcctt tccctctcca cccctcccc tttggagacc A aaccacagcc tcgggaaaga cgacctgcgc cccagctcgc cctgtctctc ggtcttcgga gtgcttattc tcacctgtct gggctttctg gtggcgcgca cgttcgcctg gaacctgctg gtgctggcga ccacctctcg tgtacgcacc ttccacacgc tgccccacaa cctgggtgga tccatggccg tctcggtatg cctgggtggc gcgtgtgtca tgcgctgag cctggtgcat gagctgtccg ggcgcgcctg gcagctaggt cggagctgt gccagctttg gatcgctgc gacgtgcttt gctgcacggc cagcatctgg aacgtgacgg ccatagcctt ggaccgctac tgggtccatca cgcgccacat ggaatacacg ctccgcacc ccaagtgcgt ctccaacgtc atgatcgcg ctaactgggc actctcgcgt gtcactcttc tggccccgt gctttttggc tggggagaga cgtactctga gggcagcgag gagtgcaggt taagccgga gcccttctac gccgtgtct ccaccgtagg cgccttctac ctgcgcctct gtgtgtgtgt cttcgtgtac tgggaagatc acaaggctgc caagttccgc gtgggtctca ggaagaccaa tagcgtctca cccatatccg aagctgtgga ggtgaaggac tctgcaaac agcccagat ggtgttcacg gtccgccacg ccaccgtcac ctccagcga gaaggcgga cgtggcgga gcagaaggag cagcggggcg cctcatggt gggcattctc atggcgtgt tegtgtctctg ctggatcccc ttctttctca cggagctcat cagtcctctc tgcctccac tctctttt acccctgat ctatacggct agcatcttcc tgtggtgtg cgcctcaac acctctttt ctaggcaaca ctga ttcaacaaga actcaaacag cgccttcaag aactctttt vlitllgfl VAATFAWLL P MDLPVNLTSF SLSTPSPLET NLSLKGDDLR PSSPLSVFG VLIITLLGFL RRLCQLWIAC VLATILRVRT FHRVPHNLVA SMAVSDVIVA ALVMPISLVH ELSRRWQLG RRLCQLWIAC DVLCTASIW NVTAIALDRY WSITRMEYT LRTRKCVSNV MIALTWALSA VISLAPLLFG WGETYSEGE ECOVSREPSY AVFSTVGAFY LPLCVLFFV WKTYKAKFR VGSRTKNSVS PISEAVEVKD SAKQPQMVFT VRHATVTFQP EGDWREQKE QRAALMVGIL IGVFVLCWIP FFLTELISPL CSCDIPAIWK SIFLWLGYSN SFFNLIYTA FNKNYNSAFK NFFSRQH</p>	Homo sapiens
446	74514	5-HT5A Receptor	NP_076917.1	<p>gtaatgcaga gataataaaa cttcttaggt ccataagct tataataatt taataaccta A aacatggtat acaaatctct ccaaacccaa taacataatt atagtttcaa aaagtcccc aaactttcaa gttagatttt attgctttga tgagtggctt taaatatgaa aagtcttgcc tgtgaaggcc aatccttttc ccgtggactg ggatctatag aaatacagaa atgtgcccag gggttcattc cctaataac catcattcac attctcaac ctccctaata accagccacc atgtgagaag gatccacagt tactgtttat gactataatt aactagtacc tgggactggt cagtgagagt gtttgcaacc tgatgctaag gatgtcaag tctctctcgc cctctgtccc agccagtaag taattccctg gcctcgggcc ataccoccta atcttggtca gctgattatg acaggcagac agcacagtaa ataacactat atattaagaa aacccaaagc atatgtatca atggtatata cccaacagca tcttaggaat ggagagtctg tagcaagggc ctccaatgtg aaggtcaaca cagtcactgt gatgcgtgta ttccatttt gtaagacatg atctctggtg gtcattttta tcttctaac ttattggaaa agtctctgt tttggggggc cgccccctgt cacagccaga ctgactcagt ttccctggga ggtcccgctc gagcccgctc ttccccctcc tctgcccgcg cccagccctc gcccacccct cggcgccgcg acatctgctt gctcagctcc agacggcgcc cggaccctcg ggcgggggat ccagccaggt gggagccccg cagatgaggt</p>	Homo sapiens
447	81765	Thromboxane A2 Receptor	NM_001060		Homo sapiens

448 81765 Thromboxane NP_001051.1 MPNGSSSLGP CFPTNITILE ERRLIASPWF AASFVVGSLA SNLLALSILA GARQGGSHTR P Homo sapiens
A2 Receptor SSFLTFLCGL VLTDFLGLLV TGTIVSQHA ALFEHVAVDP GCRLCRFMGV VMFFGLSPL
LLGAAMASER YLGITRPFSS PAVASQRRRAW ATVGLVWAAA LALGLLPLLG VGRYTVQYPG
SWCFLTIGAE SGDAVAFGLLE SMLGGLSVGL SFLNLTVSVA TLCHVYHGQE AAQQRPRDSE
VEMMAQLLGI MVVASVCWLP LLVFIAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
QILDPWYIIL FRAVLRRLO PRLSTRPRSL SLQPLTQRS GLQ

ctctgaaggt gtgcctgaac cagtgccagc ctgcccctgc tgcagcatcg gctgatggg
gtggtgactg atccctcagg gctccggagc catgtggccc aacggcagtt cctggggccc
ctgtttccgg ccacaaaca ttaccctgga ggagagacgg ctgatcgctt cgccttggtt
cgccgcctcc ttctgctggt tgggctctgg ctccaaactg ctggccctga gctgctggc
ggcgcgcggt caggggggtt cgcacacggc ctctctcttc ctacacttcc ttgctggcct
cgtctctacc gacttctctg ggtgctggt gaccggtaac atcgtggtgt cccagcacgc
cgcctcttc gactggcacg cctgggaccc tggctgctgt ctctgtcgtt tcatgggctg
cgtcatgac ttcttggtcc tgtccctcgt gctgctgggg gcgcacatgg cctcagagcg
ctacctgggt atcacccggc ccttctcggc cccggcggtc gctcgcagc gccgcgctg
ggccaccgtg gggctggtgt gggcgggcgc gctggcgctg gctgctgctg cctgctggg
cgtgggtcgc tacacgtgc aatacccggt gtccctgtgc ttcccgacgc tgggcgcga
gtccggggac gtggccttcg ggtgctctt ctccatgctg ggcggcctct cgtcgggct
gtccttctct ctgaacacgg tcagctggc caccctgtgc cactctacc acgggcagga
ggcgccccag cagctctccc gggactcoga ggtggagatg atggctcagc tctggggat
catggtggtg gccagctgtg ttggtgtgct ccttctggct tcatgtccc agacagtgt
gcgaaccgg cctgcatga gcccgcgg gcagctgtcc cgcaccacgg agaaggagt
gtcactctac ttgcgctgg ccacctggaa ccagatcctg gaccctggg tgtatatact
gtccgcgc gcctgctcc ggcgtctcca gctcgcctc agcaccggc ccaggtcgt
gtccctccag cccagctca cgcagctc cggctgtcag taggaagtgg acagagcgc
ctcccgcg cttccgcgg agccttggc cctcggaca gccatctgc tbtgtctgag
gattcagggt ctgggggtgc tggatggaca gtgggcata gcagcagggt tbtgggtga
cccaatcca accgggggac ccccaactcc tccctgatcc ttttaccagg cactctcct
tctcgggccc ctttttccca tccagagctc ccacccttc tctgggtccc tcccaacccc
aggaagggca tgcagacatt ggaagagggt ctgcatgtgc tattttttt tttagacgga
gtcttgctct gtcccccagg ctggagtga gtggcgcaat ctcagctcac tgcaacctcc
acctccggg ttcaagcgat tctcctgct cagctcctg agtagctggg actataggcg
cgcgccacca cgcgcggcta attttctgt ttttagtaga gcgggggttt caccgtgtg
gccaggtgg tctgaactc ctgacctcag gtgattcacc agcctcagcc tcccaagtg
ctggggtcac aggcagcct caccacacct ggccattttt ttttttttt tagacggagt
ctcactctgt gcccagcct ggagtacagt ggacgatct cggctcactg caacctcgc
ctcccggtt caagcgattc tctgctcga gctcccgag cagctgggt tacaggcgta
agcactcgc ccggccttg catgctctt gacctgaat ttgacctact tgctggggtg
cagttgcttc ctttgaacc tccaacaggg agggctctgt ccagaaagg ttgaatgta
aacgggggca ccccttttc ttgcacaaat atatctctgc ctttggtttt at
SSFLTFLCGL VLTDFLGLLV TGTIVSQHA ALFEHVAVDP GCRLCRFMGV VMFFGLSPL
LLGAAMASER YLGITRPFSS PAVASQRRRAW ATVGLVWAAA LALGLLPLLG VGRYTVQYPG
SWCFLTIGAE SGDAVAFGLLE SMLGGLSVGL SFLNLTVSVA TLCHVYHGQE AAQQRPRDSE
VEMMAQLLGI MVVASVCWLP LLVFIAQTVL RNPPAMSPAG QLSRTTEKEL LIYLRVATWN
QILDPWYIIL FRAVLRRLO PRLSTRPRSL SLQPLTQRS GLQ

449	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NM_005283	atggagtctt caggcaaccc agagagcacc accctttttt actatgacct tcagagccag A	Homo sapiens
				ccgtgtgaga accaggcctg ggtctttgt accctggcca ccactgtcct gtactgcctg	
				gtgtttctcc tcagctagt gggcaacagc ctggtcctgt gggctcctgg gaagtatgag	
				agcctggagt cctcaaccaa catcttcac ctcaacctgt gccttcaga cctggtgttc	
				gcctgcttgt tgctgtgtg gatctccca taccactggg gctgggtgct gggagacttc	
				ctctgcaaac tectcaatat gatcttctcc atcagcctct acagcagcat ctcttctctg	
				accatcatga ccatccaccg ctacctgtcg gtatgagcc cctctccac cctgcgcgc	
				ccaccctcc gctgcgggt gctggtgacc atggtctgtt gggtagccag catcctgtcc	
				tcacatctcg acaccatctt ccacaagggt ctttctcgg gctgtgatta ttccgaactc	
				acgtggtacc tcacctcctg ctaccagcac accctctct tectgtgtc cctggggatt	
				atcctgttct gctacgtgga gatcctcagg accctgttcc gctcagctc caagcggcgc	
				caccgcagg tcaagctcat cttcgccac gtggtggcct acttctcag ctgggggtccc	
				tacaaactca cctgtttct gcagacgtg ttctggacc agatcatccg gagctgcgag	
				gcaaaacagc agtagaata cgcctgtct atctgcgca accctgcctt ctcccactgc	
				tgctttaacc cgtgtctcta tgtcttcgt ggggtcaagt tccgacaca cctgaaacat	
				gtctccggc agttctggt ctgccggctg caggcaccca gccagcctc gatccccac	
				tccctggtg ccttcgcta tgaggcgcc tcttctact ga	
450	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	(C NP_005274.1	MESSGNPEST TFFYYDLQSQ PCENQAWVFA TLATTVLYCL VFLLSLVGNS LVLWLVKYE P	Homo sapiens
				SLESLTNIFI VNLCLSDLVF ACLLPVWISP YHWGWWLGDF LCKLNMIFS ISLYSSIFFL	
				TIMTIHRYLS VNSPLSTLRV PTLRCRLVLT MAVWASILS SILDITFHKV LSSGCDYSEL	
				TWYLTSVYQH NLFFLLSLGI ILFCYVEILR TIFRSRSKRR HRTVKLIFAI VVAYFLSWG	
				YNFTLFQLTL FRTQIIRSC AKQLEYALL ICRNLAFSHC CFNPVLYVFV GVKFRTLKH	
				VLRQFWFRL QAPSPASIPH SPGAFAYEGA SFY	
451	130108	G Protein-Coupled Receptor GPR75	NM_006794	gcgatggcga tgaagcctct agtcctgcat catccagagc ggcaggcgag ctgggggtccg A	Homo sapiens
				gactgcgaga tggaggagg ggcgcgtcg gcaccggca ggccttatctg tottgggcct	
				cttttgtcac atatgtcca tctgtgagct gaggccctga cteactgagt atttttgggg	
				agcagaagaa ggagacattt ctctccgaaa atgaactcaa caggccacct tcaggatgcc	
				cccaatgcca cctcgtcca tgtgcctcac tcacaggaa gaaacagcac ctctctccag	
				gagggtcttc aggatctcat ccacacagcc acctgggtga cctgtacttt tctactggcg	
				gtcatcttct gcctgggttc ctatggcaac ttcattgtct tctgtcctt cttcgatcca	
				gccttcagga aattcagaac caactttgat ttcatgatcc tgaacctgtc cttctgtgac	
				ctcttcattt gtggagtgc agcccccatg ttacaccttg tgttattctt cagctcagcc	
				agtagtatcc cggatgcttt ctgcttccat ttccatctca ccagttccag cttcatcatc	
				atgtctctga agacagtgc agtgatcgcc ctgcaccggc tccggatggt gttggggaaa	
				cagcctaalc gcacggcctc ctttccctgc accgtactcc tcacctgct tctctgggcc	
				accagtttca ccttggccac cttgggtacc ttgaaaacca gcaagtccca cctctgtctt	
				cccatgtcca gtctgattgc tggaaaaggg aaagccattt tgtctctcta tgtggtcgac	
				ttcaccttct gtgtgtgtgt ggtctctgtc tcttatcatca tgattgtctc gacctgcgg	
				aagaacgctc aagtcagaaa gtgccccctt gtaatcacag tcatgtctc cagaccacag	
				cctttcatgg ggttccctgt gcaggagggt ggagatccca tccagtgtgc catgccgct	
				ctgtatagga accagaatta caacaaactg cagcacgttc agaccgtgg atataccaag	

452	130108	G Protein- Coupled Receptor GPR75	NP_006785.1	<p>agtcaccaac aactggtcac cctgcagca agccgactcc agctcgtatc agccatcaac ctctccactg ccaaggattc caaagccgtg gtcaccctgt tgatcattgt gctgtcagtc ctggtgtgct gtctccact ggggatttcc ttggtacagg tggttctctc cagcaatggg agcttcattc ttaccagtt tgaattgttt ggatttactc ttatatittt caagtcagga ttaaaccctt ttatatattc tcggaacagt gcagggtga gaagaaagt gctctggtgc tcacaataca taggctggg tttttctgc tgcaacaaa agactcgact tcgagccatg ggaaaaggga acctcgaagt caacagaaac aaactctccc atcatgaaac aaactctgcc tacaatgttat ctcaaaagcc acagaagaaa tttgtggacc aggttctgtg cccaagtcat tcaaaagaaa gtatggtgag tcccaagatc tctgtggac atcaacactg tggtcagagc agctcgacc ccatacaac tcggattgaa ctttactaca gcatctataa cagcagccct tccagagg agagcagccc atgtaactta cagccagtaa actcttttgg atttgccaat tcatatattg ccatacatta tcacaccact aatgacttag tgcaggaata tgacagcact tcagccaagc agattccagt cccctcgtt taaagtcagt gaggctatag gatcttatgt aaacagtitt tgtttctgat agtaatggac ttattcttaa ctbgagatca gtggcggatc aaaacctaca agattcaact gaaaagtggc cagttatggt ttcttttcat ctgatgtgtc agtatctgtt gattgtcttt gtagttgtt gacatcttaa gatitgatgt gaaagtttta gattttttac cctg</p>	Homo sapiens
				<p>NP_006785.1</p> <p>FIVLSEFDP AFRKERTNED FMILNLSFCD LFICGVAPM TTFVLFSSA SSIPDAFCFT FHLTSSGFI MSUKTVAVIA LHRLRMVLGK QPNRTASFPK TVLLTLLLWA TSFTLATLAT LTKSKSHLCL PMSSLIAGKG KAILSLYVD FTEFVAVSV SYIMIAQTIR KNAQVRKCPP VITVDASRPQ PFMGVFVQGG GDPIQCAMPA LYRNQYNKL QHVQTRGYTK SPNQLVTPAA SRLQLVSAIN LSTAKDSKAV VTCVIIIVSV LVCCPLGIS LVQVLLSNG SFILYQFELF GFTLIFKSG LNPFYISRNS AGLRRKVLWC LQYIGLGFCC CKQTRLRAM KGKNLEVRN KSSHHTNSA YMLSPKPQKK FVDQACGFSH SKESMVSPKI SAGHQHCGQS SSTPINTRIE PYYSIYNSSP SQEESSPCNL QPVNSFGFAN SYIAMHYHTT NDILVQYDST SAKQIPVPSV ataacagcat gaagtgcctg gaaactggaa taggctgtc ctctccctcg accctcccc A tccttgtccc tctgtctacc cctcgtcgt tcctccctc cggcgagggc cgcctttata acaaactgctc agagtgcgag ggcgggatat ctgtccaaag tctccccag cactgaggag ctcgcctgct gccctcttc gcgcgggaa ggcgggag cagaaccaag ttcacggcca acgccttggc actagggtcc agaattgcta caacagtccc tgatggttgc cgaatggcc tgaatccaa gtactacaga ctttgtgata aggtgaagc ttggggcatc gtcctagaaa cggtgccac agcgggggtt gtgacctcgg tggccttcat gtcactctc ccgactcctg tctgcaaggt gcaggactcc aacaggcgaa aaatgctgcc tactcagttt ctcttctcc tgggtgtgtt gggcatcttt ggcctcact tcgcttcat catcgactg gacgggagca cagggccac acgctctctc ctctttggga tcctctttc catctgttc tctgcttc tggctcatgc tgtcagtctg accaagctcg tccgggggag gaagccctt tccctgttgg tgattctggg tctggccgtg ggcttcagcc tagtccagga ttttatcgt attgaatata ttgtcctgac catgaatagg accaacgtca atgtctttc tgagctttcc gctcctcgtc gcaatgaaga ctttgtctc ctgctcact acgtctctt ctbgatggc gtgaccttcc tcatgtctc cttcaccttc tgtggttctt tcacgggctg gaagagacat gggggccaca tctacctac</p>	Homo sapiens
453	133117	G Protein- Coupled Receptor RAIG1	NM_003979		

454	133117 G Protein- Coupled Receptor RAIG1	NP_003970.1	gatgtctctc tccattgcca tctgggtggc ctggatcacc ctgctcatgc ttctgacitt tgaccgcagg tgggatgaca ccatcctcag ctccgcttgg gctgccaatg gctgggtgtt cctgttggct tatgttagtc ccgagttttg gctgctcaca aagcaacgaa accccatgga ttatctggtt gaggatgctt tctgtaaac tcaactcgtg aagaagagct atggtgtgga gaacagagcc tactetcaag aggaatacac tcaaggtttt gaagagacag gggacacgct ctatgcccc tattccacac attttcagct gcagaaccag cctccccaaa aggaattctc catcccacgg gccacgctt ggccgagccc ttacaaagac tatgaagtaa agaaagaggg cagctaactc tgcctgaag agtgggacaa atgcagccgg gcgcagatc tagcgggagc tcaaaggat gtggcgaaa tcttgagctc tctgaaaaa ctgtacaaga cactacggga acagtttgcc tccctccag cctcaaccac aattctcca tgcgtgggct gatgtggct agtaagactc cagttcttag aggcgctgta gtatttttt tttttgtct catccttgg atacttcttt taagtggag tctcaggcaa ctcaagtta gaccttact ctttttgtt gtttttgaa acaggatctt gctctgac ccaggcttga gtgcagtgtt gcgacacag cccagtcag cctcgaccac ctgtgctcaa gcaatccctc catctccatc tcccaagtg ctgggatgac agcgtgagc cacagctccc agcctaggcc cttaatcttg ctgttattt ccatggacta aaggtctggt catctgagct cacagctc taggggctg ctcctaac tcacagtgg tttgtgagg ctctgtggcc cagagcagac ctgcatact gagcaaaaat agcaaaagcc tctctcagcc cactggcctg aatctacact ggaagccaa ttgtggcac cccgctccc caacctctt tgcctggta ggagaggcta aagatcacc taaatctact catctctc gtctgctc acatgtggcc tcagcagctc ccagacaca attcacaggt caccctctc ttcttgact gtcccaaac ttgctgtcaa ttccgagatc taatctccc ctacgctctg ccaggaaatc ttccagacct cactagcaca agcccgtt ctccttgtca ggagaattt tagatcattc tcacttcaa ttccgtgggc tgatacttct ctcatcttg acccaacct ctgtaaatag attacgca ttacgggct cattctgtaa gtggcctgg tctcctaag gaggaagtgt cattgtataa taagttatc acctgagtat gcaataaaga tgtggtggcc actcttctc ggtgtggca gcaaaaaa aaaaa RRKMLPTQFL FLLGLGIFG LTFAFIIGLD GSTGPRFFL FGILFISICFS CLLAHAVSLT KLVRGRKPLS LLVILGLAVG FSLVQDVIAI EYIVLNMRT NVNVESELSA PRNEDFVLL LTYVLFMAL TFLMSSFTFC GSFTGWKRHG AHYLTMLLS IAIWVAMITL LMLPDRRW DDTILSSALA ANGWVFLAY VSPEFWLLTK QRNPMYPVE DAFCKPQLVK KSYGVENRAY SQEETQGE ETGDTLYAPY STHFQLQNP PQKEFSIPRA HAWPSYKDY EVKKEGS atggggacct gtgacattgt gactgaagcc aatatctcat ctggccctga gagcaacacc A acgggcatca cagctctc catgccgggt aatgccatcg cactgtgggc accagcctac ctggccctgg tctgtgtggc cgtgacgggt aatgccatcg tcacttggat catcctggcc catcgaggga tgcgcacagt caccacactac ttcatgtca atctggcgt ggctgacctc tgcattgctg cttcaatgc cgccttcaac tttgtctatg ccagccacaa catctggtac tttggccgtg cctctgtcta cttccagaac ctttcccca tcacagccat gtttgcagc atctactcca tgaccgccc tgcgtccgac aggtacatgg ccacgttcca ccccttccag cctcggttt cagctcccag caccaggcg gttattgctg gcacttggct ggtggtctc gcctggcct cccctcagt cttctactcc accgtacca tggaccaggg tgccaccaag	Homo sapiens
455	152198 Tachykinin Receptor 2	NM_001057		Homo sapiens

329/448

Homo
sapiens

NP_001048.1

152198 Tachykinin
Receptor 2

456

tgcgtggtgg cctggcccgga agacagcggg ggcaagacgc tctctctgta ccacctcgtg
 gtgatgccc tcatctactt cctgccgctc gcggtgatgt ttgtagccta cagcgtcatc
 ggccacgc tctggagcg cgcagtgccc ggacatcagg cgcacggtgc caacctccgc
 catctgcagg ccaagaagaa gtttgtgaag accatggtgc tgggtggtgc gacgtttgccc
 atctgctggc tggccctacca cctctacttc atctcgggca gcttccagga ggacatctac
 tggccacaagt tcatccagca agtctacctg gactcttct ggttggccat gagctctacc
 atgtacaatc ccatcatcta ctgctgtctc aaccacaggt ttgcctctgg gtcccggtt
 gcctccgct gctgcccag ggtaacccc accaaggaag ataagctcga gctgactccc
 agacactccc tctccacag agtcaacagg tgtcacacta aggagacttt gttcatggct
 ggggacacag cccctccga ggtaccagt gggagggcgg ggcgtcccca ggtggatca
 gggctatggt ttgggtatgg ttgtctgccc cccacaaaa ctcatgttga aattga
 MGTCDIVTEA NISSGPESNT TGITAFSNPS WQLALWAPAY LAIVLAVAVTG NAIVIVILA P
 HRRMRTVTNY FIVNLALADL CMAAFNAFN FVYASHNIWY FGRAFCYFON LFPITAMFVS
 IYSMTAIAAD RYMAIVHPFQ PRLSAPSTKA VIAGIWLVAL ALASPQCFYS TVTMDQGATK
 CVVAWPEDSG GKTLILLYHLV VIALIYFELP AVMFVAYSVI GLTLWRRVAVP GHQAHGANLR
 HLQAKKKFKV TMVLVWLTFE ICWLPHYLYF ILGSFQEDIY CHKFIQQVYL ALFWLAMSST
 MYNPIIYCCL NHRFRSGFRL AFRCPPWVTP TKEDKLELTP TTSLSRVRN CHTKETLFMA
 GDTAPSEATS GEAGRPQDGS GLWFGYGLLA PTKTHVEI

Homo
sapiens

A

152201 Thyrotropin
Receptor

457

NM_000369

cgcgtcccg gctctctttt ggctgggggt aaccgaggt gcagagctga gaatgagcg A
 atttcggagg atggagaaat agcccagat ccgctggaaa atgagggcgg cggacttgct
 gcagctgggt ctgctgctcg accgtcccag ggcctgggc ggaatgggtt gttcgtctcc
 accctgctgg tgcctatcagg aggagactt cagagtcacc tgcaaggata ttcaacgcat
 cccagctta cgcgccagta cgcagactct gaacttatt gagactcacc tgagaactat
 tccaagtcat gcattttcta atctgcccga tattccaga atctacgtat ctatagatgt
 gactctgcag cagctggaat cacactcctt ctacaatttg agtaaaagtga ctcacataga
 aattcggaat accaggaat taacttacct agaccctgat gccctcaaa agctccccct
 cctaaaagttc cttggcattt tcaacactgg acttaaaatg ttccctgacc tgaccaaaat
 ttattccact gatataattct ttatacttga aattacagac aacctttaca tgacgtcaat
 cctgtggaat gcttttcagg gactatgcaa tgaacacctg acactgaagc tgtacacaa
 tggctttact tcagtccaa gatatgcttt caatgggaca agctggagt ctgtttacct
 aaaaagaat aaatacctga cagttattga caaagatgca ttgggaggag tatacagtg
 accaagcttg ctggacgtgt ctcaaacagg tgtcactgcc ctctccatcca aaggcctgga
 gcaactgaag gaactgatag caagaacac ctggactctt aagaaacttc cactttcctt
 ggtttcctt cactcacac gggctgacct ttcttaccga agccactgct gtgcttttaa
 gaatcagaag aaatcagag gaatccttga gtccttgatg tgtaaatgaga gcagatgca
 gagcttgccg cagagaaaat ctgtgaatgc cttgaatagc cccctccacc aggaatatga
 agagaatctg ggtgacagca ttgttgggta caaggaaaag tccaagtccc aggatactca
 taacaacgct cattattacg tcttcttga agaacaagag gatgagatca ttgggtttgg
 ccaggagctc aaaaacccc aggaagagac tctacaagct ttgacagcc attatgacta
 caccatatgt ggggacagtg aagacatggt gtgtacccc aagtcagatg agttcaaccc
 gtgtgaagac ataattgggt acaagttcct gagaattgtg gtgtggttcg ttagtctgct

458	152201	Thyrotropin Receptor	NP_000360.1	<p> ggctctctg ggcaatgtct ttgtctctgct tattctctc accagccact aaaaactgaa cgtccccgc tttctcatgt gcaactggc ctttgccgat ttctgcatgg ggatctacct gctctctatc gcctctgtag acctctacac tcaactctgag tactacaacc atgccatcga ctggcagaca ggccttggtt gcaacacggc tggtttcttc actgtctttg caagcgagtt atcggtgtat acgctgacgg tcatcaccct ggagcgtgg tatgccatca ccttcgccat ggcctggac cggaagatcc gctcaggca gcatgggtg atcatggttg gggcctgggt ttgtgcttc ctctcgccc tgtctctttt ggtgggaata agtagctatg ccaagctcag tatctgctg cccatggaca ccgagacccc tcttgctctg gcatatattg ttttcttct gagcgtcaac atagttgctt cgtctatcgt cgtctgctgt catgtgaaga tctcatcac agtccgaaat ccgcagtaca acccagggga caaagatacc aaaattgcca agagatggc tgtgtgtatc ttcaccgact tcatatgcat ggcccacaac tcatctctatg ctctgtcagc aatctgaaac agcctctca tcaatgttag caactccaaa atcttgctgg tactcttcta tccacttaac tcctgtgcca atccattcct ctatgctatt ttcaccaagg ccttcagag ggatgtgtc atcctactca gcaagtttg catctgtaa cgccaggctc aggcataccg ggggcagagg gtctctccaa agaacagcac tgatatctag gttcaaaagg ttaccacga catgaggcag ggtctccaca acatggaaga tgtctatgaa ctgattgaaa atcccatct aaccccaagg aagcaaggcc aaatctcaga agagtatatg caaacggttt tgtaagttaa cactacacta ctcaacaagg taggggaact taaaaataa tagtttcttg aatatgcatt ccaatcccat </p>	Homo sapiens
459	152245	C-C Chemokine Receptor 2	NM_000648	<p> caggactgcc tgagacaagc cacaaactga acagagaaa ggattgaac aaggacgcat ttccccagta catccacaac atgctgtcca catctcgttc tcggtttatc agaaatacca acagagcgg tgaagaagtc accaccttt ttgattatga ttacggtgct cctgtcata aatgtgacgt gaagcaaat ggggcccac tctgcctcc gctctactcg ctggtgttca tctttggttt tgtgggcaac atgctgtgctg tctcatctt ataatactgc aaaaagtga agtgtgtgac tgacatttac ctgctcaacc tggcatctc tgatctgctt tttcttatta ctctcccat gggtgctcac tctgtgcaa atgagtgggt cttggggaat gcaatgtgca aattattcac aggtgtgtat cacatcggtt atttggcg aatctcttc atcatctcc tgacaatcga tagatacctg gctattgtcc atgctgtgtt tgccttaaaa gccaggacgg </p>	Homo sapiens

460	152245 C-C Chemokine Receptor 2	NP_000639.1	<p> tcaaccttgg ggtggtgaca agtgtgatca cctggttggt ggctgtgttt gcttctgtcc caggaatcat ctttactaaa tgccagaaaag aagattctgt ttatgtctgt ggcccttatt ttccacgagg atggaataat ttccacacaa taatgaggaa cattttgggg ctggtcctgc cgctgctcat catggtcatc tgctactcgg gaatcctgaa aacctgctt cgggtgcgaa acgagaagaa gaggcatagg gcagtgagag tcatcttcac cateatgatt gtttactttc tcttctggac tccctataac attgtcattc tcctgaacac ctccaggaa ttcttcggcc tgagtactg tgaagcacc agtcaactgg accaagccac gcaggtgaca gagactcttg ggatgactca ctgtgcatc aatcccatca tctatgcctt cgttggggag aagttcagaa ggtatctctc ggtgttcttc ggaagacaca tcaccaagcg ctctgcacaa caatgtccag ttttctacag ggagacagtg gatggagtga ctccaacaaa cagccttcc actggggagc aggaagtctc ggtggttta taaaacgagg agcagtttga ttgtgttta taaagggaga taacaatctg tatataacaa caaacttcaa ggtttgttg aacaatagaa acctgtaaag caggtgccc ggaacctcag ggctgtgtgt actaatcacg actatgtcac ccaatgcata tccaacatgt gctcagggaa taatccagaa aaactgtgg tagagacttt gactctccag aaagctcatc tcagctcctg aaaaatgcct cattacttg tgtaaatcct cttttcttag tcttcataat ttcttcactc aatctctgat tctgtcaatg tcttgaaatc aagggccagc tggaggtgaa gaagagaatg tgacaggcac agatgaatgg gagtggagg tagtggggtc agggctgaga ggagaaggag ggagacatga gcatggctga gcctggacaa agacaaaggt gagcaaaagg ctcaagcatt cagccaggag atgatactgg tccctagccc catctgccac gtgtatttaa ccttgaaggg ttcaccaggg caggagagtg ttgggaaactg caataaacctg ggagttttgg tggagtcoga tgattctctt ttgcataagt gcatgacata tttttgcttt attacagitt atctatggca cccatgcacc ttacatttga aatctatgaa atatcatgct ccattgttca gatgtctctt aggccacatc cccctgtcta aaatttcaga aaattttgt ttataaaga tgcattatct atgatatgct atatatgta tatgcaatat aaattttag MLVLLILNC KKLKCLTDIY LLNLAISDLL FLITPLWAH SAANEWVFGN AMCKLFTGLY HIGYFGGIF IILLTIDRYL AIVHAVFALK ARTVTFGWV SVITWLVAVF ASVPGIIFTK CQKEDSVYVC GPYFPRGMNN FHTIMRNILG LVLPLIMVI CYSGLKTL RCRNEKKRHR AVRVIPTIMI VYFLFWTPYN IIVILNTFQE FFGLSNCEST SLDQATQVT ETLMTHCCI NPILYAFVGE KFRRYLSVFF RKHITKRECK QCPVFYRET DGVSTNTPS TGEQEVSAGL CAGAAATCCT CAGGTCCAC AGAAATGAAC ACGTTTCTA AAATAAAGTC AAGCCAAGCT A GTCCTACCCC AAGAAAATC CTAGCAAGCA AAGTGGCTT CCTCCTGAG GCCCAGCCA GGTGTGTCCA ACGTAGGAG CCACAGCTCA GAGATCAGAG TGACTTAACA GTTAGAGGGC ACTTGATGAG TAAGGTGAAA TAGGGAACC AAGTCAGACG ACACCTCCCT TCTGAGTCCC AACCATGTCT ACATCTGGAG AAGAACAGTT AAGTCAAGG ATCACAGACT TGTGATTAGA GACTGCCAGG GTCCATATGA CCAAGCGGGG GTCCAGGTG TGAAGCTGGG GTTGAGGATC CATTATCTGA ATTTCCACT CTATGGATGA TCACTTTAT TCTTTTCTT TCTTGAAT TATTTCCATT TGTATTATCC TAAATTCCCT GTTAGATCAC CTGTGAAAGC TTGCAACTGT CTGATAAGAA TAAAGGGGGA AGGATTTCAG TTACAGCAG AGACTTCAGA AGGAGTCTC TCTAGGAGCA AATTGGGGC AATCCAGTGG GAAGACTGCGA CTTGAGCTGC GTTTGGACAA CAGGCACACA ATCTTTACTT ACTTTTCAGG CTGCTTTGAG GT </p>	Homo sapiens
461	152299 Interleukin- 8 Receptor A	LG5459		Homo sapiens

agctgttaag tcaactctgat ctctgactgc agctctact gtggacaca cctggccgtt A
gcttcagtta gatcaaacca ttgctgaac tgaaggagac atgtcaata ttacagatcc
acagatgtgg gatattgat atctaaattt cactggcatg ccactgcag atgaagatta
cagccctgt atgtagaaa ctgagacact caacaagtat gtgtgatca tgcctatgc
cctagtgttc ctgctgagcc tgcctggaaa ctccctggtg atgtggtca tctatacag
caggttcggc cgtccgtca ctgagtctta cctgtgaac ctggccttgg ccgacctact
ctttgccctg accttgcca tctggccgc ctccaagtg aatggctgga tttttggcac
attcctgtgc aagtggtct cactcctgaa ggaagtcac ttctacagt gcatcctgt
gttgccctgc atcagtgtg accgttacct ggccattgtc catgccacac gcacactgac
ccagaagcgt cacttggtca agttgtttg tcttggtgc tgggactgt ctatgaatct
gtccctgccc ttctctctt tccgccaggc ttaccatcca acaattcca gtccagtgtg
ctatgaggtc ttgggaaatg acacagcaaa atggcgatg gtgttcgga tctgctca
cacctttggc ttcatctgc cgtgtttgt catgctgttc tgcctatggt tcacctgctg
tacactgtt aaggccaca tggggcagaa gcaccagcc atgaggggtca tcttgctgt
cgtccatc ttctgctt gctggctgcc ctacaactg gtcctgctg cagacacct
catgagacc cagtgatcc aggagagctg tgagccgcg acaacatcg gccgggccct
ggatgccact gagattcttg gatttctca tagtgcctc accccatca tctacgctt
catcgccaa aatttgcct atggattcct caagatcctg gctatgcatg gcttggtcag
caaggagttc ttggcagtc atcgtgttac ctctcact tcttctgtc tcaatgtctc
ttccaaactc tgaacacct cgtatgaaga atatctctc tcagaaggaa agaataacca
acacctgag gtgtgtgtg gaaggtgatc tggctctgga caggcactat ctgggttttg
ggggagcgt ctgagtgtg ggaagttag gaactgtgt ctacagggc cacaccaacc
ttctgaggag ctgttgaggt acctccaaag accggcctt gcacctccat ggaaacgaag
caccatcatt cccgtgaac gtcacatctt taaccacta actgctaact tagcatggcc
acatctgag cccgaatctg acattagatg agagaacagg gctgaagctg tgtcctcatg
agggctggat gctctgttg acctcacag gacatctcc tcaactctga gtgttaagcg
ttgagccacc aagctggtg ctctgtgtg tctgacga gctcaggggg gtggttttcc
catctcaggt gtgttcagt gtctgtgga gacattgag caggcactgc caaacatca
acctgccagc tggcctgtg aggagctgga aacacatgtt cccctgggg gtggtggatg
aacaagaga aagagggtt ggaagccaga tctatgccac aagaaccccc ttaccccc
tgaccaact cgcagacaca tgtgctggc acctgctgag cccaagtgg aacgagacaa
gcagccctta gccctcccc tctgcagctt ccaggctggc gtgcagcatc agcatcccta
gaaagccatg tgcagccacc agtccattgg gcaggctgat gtctctaata aagcttctgt
tccgtgcttg tccctgtgga agtatcttg ttgtgacaga gtcaagggtg tgtgcagcat
tgttggtctg tccctcagta gaatggggc agcacctct aggaaggcac ctctctgggt
tgaagggcag tgttccctg ggctttaact cctgctgaa cagtctctg aggcacagaa
actcctgtc atgccatc cctggccaa ggaagtccc ttgtccaca agtaaaagga
aatcctctc cagggagtct cagcttcacc ctgaggtgag catcatctc tgggttaggc
cttgccctagg catagcctgc ctcaagctat gtgagctcac cagtcctcc ccaaatgctt
tccatgagtt gcagttttt cctagttctg ttccctct tggagaacag ggcctgtcg
gtttgtcac tgtatgtct tgggtcctg agcctactaa ataatgata

463	152299	Interleukin-8 Receptor A	NP_000625.1	acaggaatga atgcatgctg aaaaagaccac tctttt MSNITDPQMW DFDDLNTGMP PPADEDYSPC MLETETLNKY VVIAYALVF LLSLLGNSLV P MLVILYSRVG RSVTDVYLLN LALADLLFAL TLPIMAAASKV NGWIFGTFLC KVVSLLEKEVN FYSGILLIAC ISVDRYLAIV HATRTLQKR HLKFKVCLGC WGLSMNLSLP FFLFRQAYHP NNSSPVCYEV LGNDTAKWRM VLRIPLPHTFG FIVPLFWLF CYGFTLRTL F KAHMGQKHRA MRVIFAVVLI FLICWLPYNL VLLADTLMRT QVIQESCERR NNIGRALDAT EILGFLHSCL NP11YAFIGQ NFRHGLKIL AMHGLVSKF LARHRTSYT SSSVNVSSNL	Homo sapiens
464	158822	Mas Proto-Oncogene	NM_002377	cctgaggcct cctcatggat ggggtcaaacg tgacatcatt tgtgtttgag gaaccacaga A acatctcaac tggcagggaac gcttcagtcg ggaatgcaca teggcaaatc cccatcgtgc actgggtcat tatgagcatc tccccagtcg ggtttgttga gaatgggatt ctcctctggt tcctgtgctt ccgagatgaga agaaatccct tcaatgtcta catcaccac ctgtctatcg cagacatctc actgtcttc tgtattttca tcttgtctat cgactatgct ttagattatg agctttcttc tggccattac tacacaattg tcacattatc agtgactttt ctgtttggct acaaacggg cctctatctg ctgacggcca ttagtgtgga gaggtcctg tcagtcctt acccaatctg gtacgatgc catgcacca agtaccagtc ggcattggct tgtgccctc tgtgggtctt tcttgcttg gtgaccacca tggagtatgt catgtgcac gacagagaag aagagagtca ctctcggaat gactgcgag cagtcatcat cttatagcc atcctgagct tcctgggtctt cagccccc atgctggtgt ccagcaccat ctgtgtcgtg aagatccgga agaaacagtg ggttcccat tctcccaagc ttacatagt catcatggc accatcatta tattctcat ctctgctatg cccatgagac tcctttacct gctgtactat gagtattggt cgaccttgg gaacctacac cacatttccc tgccttctc cacaataac agtagcgcca acctttcat ttacttttt gtgggaagca gtaagaaga gatttcaag ggtccttaa aagttgttct gaccagggt ttcaaatg atgaaacc tcggcgccag aaagacaatt gtaatacgtt cacagtgag actgtcgtct aagaactgtg aggaagttg tggataaaaa tgggtgaaac caggtcattt ttagttgtg ctggaatat gacttaagta tctcctaaat gtgatacaga agaacaatc atcccatatg catgagatc taattaatga tgaat MRRNPFTVYI THLSIADISL LFCIFILSID RNASVGNHR QIPVHWVIM SISPVGFVEN GILLWFLCFR P YLLTAISVER CLSVLYPIWY RCHRPKYQSA LVCALLWALS CLVTMEYVM CIDREESH RNDGRAVIF IAILSFLVFT PLMLVSSSTIL VKIRKNTWA SHSKLYIVI MVTIIIFLIF AMPMLLYLL YYEYWSFTGN LHHISLLEST INSSANPFIY FVGSKKKR FKESLKVVL RAFKDEMQR RQKNCNTVT VETV	Homo sapiens
465	158822	Mas Proto-Oncogene	NP_002368.1	atgctgcccg actggaagag ctccttgatc ctcatggctt acatcatcat cttcctcaat A ggcctccctg ccaacctctt ggccctgagg gctttgtgg ggcggatccg ccagcccag cctgcaacctg tgacatcct cctgctgagc ctgacgctgg ccgacctct cctgctgctg ctgtgcccct tcaagatcat cgaggctgag tcgaacttc gctggtaacct gccaaagtc gtctgcccc tcaagagttt tggctctac agcagcatct actgcagcac gtggctcctg gcgggcatca gcatcgagcg ctacctgga gtggtttcc ccgtgcagta caagctctc cgccggcctc tgtatggagt gattgcagct ctgtggcctt gggttatgct ctttggctac tgcaccatcg tgatcatcgt tcaatacttg aacacgactg agcagggtcag aagtggcaat	Homo sapiens
466	159152	G Protein-Coupled Receptor GPR43	NM_005306		Homo sapiens

467	159152 G Protein- Coupled Receptor GPR43	NP_005297.1	<p>gaaattacct gctacagagaa cttcacccgat aaccagttgg acgtggtgct gcccgtgcgg ctggagctgt gctgtgtgct cttcttcate cccatggcag tcaccatctt ctgctactgg cgttttgtgt ggatcatgct ctcccagccc cttgtggggg cceagagggc gcgccgagcc gtggggctgg ctgtggtgac gctgctcaat ttctgtgtgt gcttcggacc ttacaacgtg tcccacctgg tggggtatca ccagagaaaa agccccgtgt ggcgggtcaat agccgtggtg ttcagttcac tcaacgccag tctggacccc ctgctcttct attctcttct ttcagtgtgtg cgcagggcat ttgggagagg gctgcagggt ctgcggaatc agggctcttc cctgttggga cgcagaggca aagacacagc agaggggaca aatgaggaca ggggtgtggg tcaagagagaa gggatgccaa gttcggactt cactacagag tag</p> <p>MLPDWKSLLI IMAYIIIFLT GLPANLLALR AFVGRIRQPQ PAPVHILLLS LTLADLLLLL P LLPFKIIIEAA SNFRWYLPKV VCAITISFGFY SSIYCSTWLL AGISIERYLG VAFPVQYKLS RRPLYGVIAA LVAVWMSFGH CTIVIIIVQYL NTTEQVRSNG EITCYENFTD NQLDVLVPR LELCLVLFPI PMAVTIFCYW RFWIMLSQP LVGAQRARRA VGLAVVTLN FLVCFGPYNV SHLVGYHQRK SPWRSIAVV FSSLNASLDP LLFYFSSSW RRAFGRGLQV LRNQSSLLG RRGKDTAEGT NEDRGVGQGE GMPSSDFTTE</p>	Homo sapiens
468	159973 Vasoactive Intestinal Polypeptide Receptor 1	NM_004624	<p>ggccacaggc cagcgccact ctgccaggct cccggccatc gccgccttg tgcgcgcgcc A gccagctctt tgcccgccgc gggccgcccgc ccgcgggctc agggcagacc atgcgcgccg caagtccgct gccgcgccgc tggctatgct tgctggcagg cgccctcgcc tgggcccctg ggccggcggg cggccagggc gccaggctgc aggaggagtg tgactatgtg cagatgatcg agggtcaagca caagcagtcg ctggaggagg ccagctgga gaatgagaca ataggctgca gcaagatgtg ggacaacctc acctgtggc cagcaacccc tgggggccag gtagttgtct tggcctgtcc cctcatcttc aagctcttct cctccatca agcccgcaat gtaagccgca gctgcaccga cgaaggctgg acgcacctgg agcctggccc gtaccctatt gcctgtggtt tggatgacaa ggcagcgagt ttggatgagc agcagacctt ttctacggt tctgtgaaga ccggctacac catgggtac ggcctgtccc tcgccacct tctgttcgcc acagctatcc tgagcctgtt caggaaagctc cactgcacgc ggaactacat ccacatgcac ctcttcatat ccttcacctt gagggtgccc gctgtcttca tcaagaactt ggcctcttc gacagcggg agtgcggacca gtgctccgag ggctcggtgg gctgtaaggc agccatggte tttttccaat attgtgtcat ggctaaactc ttctggctgc tgggtggagg cctctacctg tacacctgc ttgccgtctc cttcttctct gagcgggaagt acttctgggg gtacatactc atcggctggg gggtacccag cacattcacc atgggtgga ccacgcacag gatccatttt gaggattatg gggtgctggga caccatcaac tctcactgt ggtggtatcat aaaggcccc atcctcacct ccatcttggt aaacttcate ctgtttattt gcatcctccg aatcctgctt cagaaactgc ggcccccaga taccaggaag agtgacagca gtccatactc aagctagcc aggtccacac tcctgtgat cccctgttt ggagtacact acatcatgtt cgccttctt ccggacaatt ttaaagcctga agtgaagatg gtctttgagc tcgtctgggg gtctttccag ggttttgtg tggctatcct ctactgcttc ctcaatggtg aggtgcaggc ggaagctgag cggaagtggc ggcgtgggca cctgcagggc gtccctgggt ggaaccccaa ataccggcac ccgtcgggag gcagcaacgg cgccacgtgc agcacgcagg ttccatgct gaccgcgctc agcccagggtg cccgcgctc ctcagcttc caagccgaag tctcctggt ctgaccacca ggtccacagg ggcccaaggc ggccctctcc gcccttccc actcaccgc gcaagcgcg gggacagagg</p>	Homo sapiens

469	159973	Vasoactive Intestinal Polypeptide Receptor 1	NP_004615.2	<p>cctgccccgg cgcgcccaag ccggccctg ggctcggagg ctgccccgg cccctgggtc tctggtcgg acactcctag agaagcagc cctagagcct gcctggagcg tttctagcaa gtgagagaga tgggagctcc tctcctggag gattgcaggt ggaactcagt cattagactc ctcctccaaa ggcctccctac gcaatcaag ggcaaaaagt ctacatactt tcctcctgac tctgccccct gctggctctt ctgccaatt ggaggaaagc accggtgga tctcaaaaca acactgggtg gacctgaggg cagaaagggt ctgccccggg aagtcacca gcaccaaac cacggtagtg cctgaaattt caccattgct gtcaagttcc ttgggttaa gcattaccac tcaggcatt gactgaagat gcagctcact accctattct ctcttacgc ttagttatca gctttttaa gtgggttatt ctggagtttt tgtttggaga gcacacctat cttagtggtt ccccaccgaa gtgactggc cctgggtgca gctgggtggg aggaaggtgc aaccaagga ctgagggact ctgaagcctc ccaagtctca gaagcagcc accagcgaat gtaggtctc ggactaagcc tacctgctct ccaagtctca gtggcttcac ctgtcaagtg gtagctgtca caccagccat acttatctct ctgtgctgtg gaagcaacag gaatcaagag ctgccctcct tgtccacca cctatgtgcc aactgttgta actaggctca gagatgtga cccatgggct ctgacagaaa gcagataacct caccctgcta cacatacagg attgaaactc agatctgtct gataggaatg tgaagcacg gactcttact gctaaacttt gtgtatcgta accagccaga tctcttggtt tatttgttta ccaattgtat tattaatgcc attatcctga attccccctg ccacccacc ctccctggcg tgtggctgag gaggcctcca tctcatgtat catctggata ggagcctgct ggtcacagcc tctctgtct gcccttcacc ccagtggtcca ctacgtctcc taccacacc tctgccagaa gatccccctca ggactgcaac aggctgtgtc aacaataat gttggttgg a</p>	Homo sapiens
470	160040	Vasoactive Intestinal Polypeptide Receptor 2	NM_003382	<p>MRPPSPLPAR WLCVLGALA WALGPAGQA ARLOEECDYV QMIEVQHQC LEEAQLNET P IGCSKMDNL TCWPAFPRGQ VVVLACPLIF KLFSSIQGN VSRCTDEGW THLEPGYPPI ACGLDDKAAS LDEQTMFYG SVKTYTIGY GLSLATLLVA TAILSLFRKL HCTRNYIHMH LFISFILRAA AVFIKDLALF DSGESDQCE GSVGCKAAMV FFQYCVMANF FWLLVEGLYL YTLAVSFFS ERKYFWGYIL IGWGVPSFT MVWTIARIHF EDYGCWDTIN SSLWIIKGP ILTSILVNFI LFICIRILL QKLRPPDIRK SDSSPYSRLA RSTLLIPLF GVHYIMEAFF PDNFKPEVKM VFELVVGSFQ GFVVAILYCF INGEVQAEIR RKWRRWHLQG VLGWNPKYRH PSGGSNGATC STQVSNLTRV SPGARRSSF QAEVSLV</p> <p>cgggacgagg ggcgccccc cgctcggg gcgctcggc acagctgagg ggcccagggt A ctccgcgac tcgctcccg ccatgctgg agcgggcgga accggggga ctaggacgg aggcgcgagg cgctggcggg ccccgccac gctgagctcg ggatcgagc gctgctgct cccgcgctgc tgacctgctg gctgctgccc cccgtgaaca gcattcacc agaatgccga tttcatctgg aaatacagga ggaagaaaca aaatgtacag agctctgag gtctcaaaaca gaaaaacaca aagctgcag tggcgtctgg gacaacatca cgtgctggcg gcctgccaat gtgggagaga ccgtcacggt gccctgccc aaagtctca gcaatttta cagcaaaaga gaaacataa gcaaaaactg tacagtgac ggatggtag agacgtccc agatttcgtc gatgcctgtg gctacagcga cccggaggat gagagcaga tcacgtttta tattctggtg aaggccattt atacctggg ctacagtgc tctctgagt ctcttgcaac aggaagcata attctgtgcc tcttcaggaa gctgcactgc accaggaatt acatccacct gaacctgtc ctgtccttca tcttgagagc catctcagt ctggtcaagg acgacgttct ctactccagc</p>	Homo sapiens

471	160040 Vasoactive Intestinal Polypeptide Receptor 2	NP_003373.1	<p>tctggcacgt tgcactgccc tgaccagcca tctctctggg tgggctgcaa gctgagcctg gtcttctctg agtactgcat catggccaac tcttctggc tgetggtgga ggggctctac ctccacaccc tcttgggtggc catgctcccc cctagaaggt gcttctctggc ctacctctg atcggatggg gctctccccc cgtctgcac ggtgcatgga ctggcgccag gctctactta gaagacaccg gttgctggga taaaaacac cacagtgtgc cctggtgggt catacgaata ccgattttaa ttccatcat cgtcaatttt gtcctttcca ttagtattat acgaattttg ctgcagaagt taacatcccc agatgtcggc ggcaacgacc agtctcagta caagaggtg gccaagtcca cgtctctgct tatcccgctg ttcggcgctc actacatggt gtttgcctg tttcccatca gcatctctc caaataccag atactgtttg agctgtgctt cgggtcgttc caggcgctgg tgggtggcct cctctactgt tctctgaaca gtgaggtgca gtgcagctg aagcgaataa ggcgaagccg gtgcccgaac cgtccgcga gccgggatta cagggtctgc ggttctctct tctcccacaa cggctcggag gtcatctagc cccacccctg cctgtcggac gcccagtcct tctgcaaac ggagacctg gtcatctagc cccacccctg cctgtcggac gcggcgaggag gccacgggt cggggcttct gcggggctga gacgcggct tctctcttc agatgcccga gcaccgtgtc gggcaggtca gcgcggtcct gactccgta agctggtgt ccactaaacc ccatacctgg</p>	Homo sapiens
472	160055 Motilin Receptor (GPR38)	NM_001507	<p>atgggagacc cctggaaagg cagcagcggc cccgaggggg gcgaggagcc gccgtggccc A gcgtgcccgc cttgcgacga gcgcgcgtgc tgcgccttc cctgggggc gctggtgcg gtgaccgctg tgtgctgtg cctgtctgtc gtgggggtga gcggcaacgt ggtgaccgtg atgtgatcg ggcgtaccg ggacatgcgg accaccacca acttgtacct gggcagcatg gccgtgtccg acctactcat cctgtcggg ctgccgttcg acctgtaccg cctctggcgc tcggggccct ggggtgtcgg gccgtgctc tgcgcctgt cctctacgt gggcagggc tgcacctacg ccacgtgct gcacatgacc gcgtcagcg tcgagcgcta cctggccatc tgcggccgc tccgcgccg cgtcttggtc accggcgcc gcgtccgcg gctcatcgct gtgctctggg ccgtggcgt gctctgtcc ggtcccttct tgttctggt gggcgtcgag caggaccccg gcatctcct agtcccggc ctaaatgga ccgcgcggat cgcctctcg cctctgcct cgtcgcgcc tctctggctc tgcggggcg caaccgcgtc cccgcgctg gggcccaga ccgcggagg ccggcgctg ttcagcccg aatgccggc gagccccg cagctgggag cgtgcgtgt catgtgtgtg gtaccaccg cctacttctt cctgcccctt ctgtgcctca gcatcctcta cgggtcctc gggcgggagc tgtggagcag ccggcgccg ctgcgaggcc cggccgctc gggcggggag agagggccac gcgagacctg ccgctctctg ctgggtgtgg ttctggcatt tataattgc tggttgcct tccacgttgg cagaatcatt tacataaaca cggaagattc gcggatgatg tacttctctc agtactttaa catcgtcgt</p>	Homo sapiens

473	160055 Motilin Receptor (GPR38)	NP_001498.1	ctgcaacttt tctatctgag cgcattctatc aaccaatcc tctacaacct catttcaaa aagtacagag cggcgccctt taaactgctg ctgcgaagga agtccaggcc gagaggttc cacagaagca gggacactgc gggggaagt gaggggaca ctggaggaga cacggtggc tacacaga caagcgtaa cgtgaagacg atgggataa MLIGRYRDMR TTTNLYLGS AVSDLLILG LPFDLYRLWR SRPWVFGPLL CRLSLYVGE CTYATLLHMT ALSVERYLAI CRPLRARVLV TRRRVRALIA VLMVALLISA GPFLFLVGE QDPGISVVP LNTARIASS PLASSPPLWL SRAPPPSPS GPETAFAAAL FSRECRPSPA QLGALRVMLW VTTAYFFLPF LCLSLYGLI GRELWSSRRP LRGPAAAGRE RGRQTIVRL LIVVLAFLIC WLPFHVGRIL YINTEDSRNM YFSQYFNIVA LQLFYLASI NPILYNLISK KYRAAFAKLL LARKSRPRGF HRSRDTAGEV AGDTGGDTVG YTETSANVKT MG atggacctgc ccccgagct ctctctggc ctctatgtgg cgcctttgc gctgggttc A ccgctcaacg tcttgccat ccgaggcgc agggccacg ccgggtccg tctacacct agcctggtct acgacctgaa cctgggctgc tccgacctgc tgcagacgt ctctgccc ctgaaggcgg tggaggcgt agctccggg gctggcctc tgggcttct ggcgcctg gtcttcggcg tggccactt ctccacctc tatgcggcg ggggttctt ccgagggcg agtgcaggcc gctacctggg agcagcctc tgggacctc tctgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggtgg ctggaccaca gaacacctc cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgcggc cggcccgct tcagcctctc tctctgctc tttttctgc ccttgacct cacagcttc tgctacgtgg gctgctccg ggcactggc cgtccggcc tgacgcacg gcggaagctg cgggcgcct ggttgcccg cggggccctc ctacgctgc tgcctgctg agacctac aacgcctcca acgtggccg ctctctgtac cccaatctag gaggctcctg gcggaagctg gggtccatca cgggtgctg gagtgtggtg cttaatccg tggtagccg ttacttgga aggggtcctg gctgaagac agtgtgtgag gcaagaacg aagggggcaa gtcccagaag taa	Homo sapiens
474	160059 G Protein- coupled Receptor GPR40	NM_005303	atggacctgc ccccgagct ctctctggc ctctatgtgg cgcctttgc gctgggttc A ccgctcaacg tcttgccat ccgaggcgc agggccacg ccgggtccg tctacacct agcctggtct acgacctgaa cctgggctgc tccgacctgc tgcagacgt ctctgccc ctgaaggcgg tggaggcgt agctccggg gctggcctc tgggcttct ggcgcctg gtcttcggcg tggccactt ctccacctc tatgcggcg ggggttctt ccgagggcg agtgcaggcc gctacctggg agcagcctc tgggacctc tctgtgtca cctgggtctg gtctttgggt tggaggctcc aggaggtgg ctggaccaca gaacacctc cctgggcatc aacacaccgg tcaacggctc tccggtctgc ctggaggcct gggaccggc ctctgcggc cggcccgct tcagcctctc tctctgctc tttttctgc ccttgacct cacagcttc tgctacgtgg gctgctccg ggcactggc cgtccggcc tgacgcacg gcggaagctg cgggcgcct ggttgcccg cggggccctc ctacgctgc tgcctgctg agacctac aacgcctcca acgtggccg ctctctgtac cccaatctag gaggctcctg gcggaagctg gggtccatca cgggtgctg gagtgtggtg cttaatccg tggtagccg ttacttgga aggggtcctg gctgaagac agtgtgtgag gcaagaacg aagggggcaa gtcccagaag taa	Homo sapiens
475	160059 G Protein- coupled Receptor GPR40	NP_005294.1	MDLPPQLSFG LYVAAFALGF PLNVLAIRGA TAHAPLRLTP SILVYALNLGC SDLLLTVSLP P LKAVEALASG AWPLPASLCP VFAVAHFPL YAGGFLAAL SAGRYLGAFF PLGYQAFRRP CYSWGVCAAI WALVLCGLGL VFGLEAPGGW LDHSNTSLGI NTPVNGSPVC LEAWDPASAG PARFSLSLLL FFLPLAITAF CYVGCLRALA RSLTHRRKL RAAWVAGGAL LTLLLCVGPY NASNVASFLY PNLGGSWRKL GLITGWSVV LNPLVTGYLG RGPGLKTVC AARTQGKSQK atgcacacgg tggctacgtc cggaccacac cgtcctggg gggaccggc caacgctcc A ggctgccccg gctgtggcg caacgctcg gaggcccgag tccctcgcc gcgggcccgtg gacgctggc tctgcccgt ctcttcgcg gctgtatgc tgcctggcct ggtggggaac tcgctggta tctacgtcat ctgcgccac aagccgatgc ggaccgtgac caacttctac atcgccaaac tggcggccac ggacgtgacc tctctcctg gctgcgtcc cttcacggcc ctgctgtacc cgtgccccg ctgggtgctg ggagacttca tgtgcaagt cgtcaactac atccagcagg tctcggtgca ggcacgtgt gccacttga ccgccatgag tgtggaccgc tggtagtga cgggttccc gttgcgccc ctgcacggc gcacgcccc cctgggctg gctgtcagcc tcagcatctg gtaggctct cgtgcgggtg ctgcgcccgt cctgcctg	Homo sapiens
476	160189 G Protein- Coupled Receptor GPR54	NM_032551	atgcacacgg tggctacgtc cggaccacac cgtcctggg gggaccggc caacgctcc A ggctgccccg gctgtggcg caacgctcg gaggcccgag tccctcgcc gcgggcccgtg gacgctggc tctgcccgt ctcttcgcg gctgtatgc tgcctggcct ggtggggaac tcgctggta tctacgtcat ctgcgccac aagccgatgc ggaccgtgac caacttctac atcgccaaac tggcggccac ggacgtgacc tctctcctg gctgcgtcc cttcacggcc ctgctgtacc cgtgccccg ctgggtgctg ggagacttca tgtgcaagt cgtcaactac atccagcagg tctcggtgca ggcacgtgt gccacttga ccgccatgag tgtggaccgc tggtagtga cgggttccc gttgcgccc ctgcacggc gcacgcccc cctgggctg gctgtcagcc tcagcatctg gtaggctct cgtgcgggtg ctgcgcccgt cctgcctg	Homo sapiens

477	160189 G Protein- Coupled Receptor GPR54	NP_115940.1	caccgctgt caccggggc gcgcgctac tgcagtggg ccttcccag cgcgcccgt gagcgccct tgcactgta caacctgtg gcgctgacc tgcgcccgt gctcgccac tgcgctgt atgcggccat gctgcgccac ctgggcggg tgcgctgct ccccgccc gccgatacg cctgcagg gcaggtgtg gcagagcgc caggcccg gggggccaa gtctcgcc tggggggc cgtggctct ctcttcgct cctgctggg cccatccag ctgttctgg tgcgaggc gctggccc gcggctctt ggcaccac cagctacgc gcctacggc ttaagacct ggtcactgc atgtctaca gaaactcgc gctgaaccc ctgcttac cttctggg ctgcacttc agacagcct tccgcccgt ctgcccctg gcgcggcc gcccggcc ccccgccg cccgaccct cggccccgc agccccac gcggagctg accgctgg gtcccacc gcccggca gggcgagaa gccaggagc agtggctgg ccgcggcg gctgtgct ctgggggg acaacgccc tctctga MHTVATSGPN ASWGAPANAS GCPGCGANAS DGPVPSRAV DAWLVLFFA ALMLGLVGN P SLVIYVICRH KPMRTVTFEY IANLAATDVT FLCCVPFTA LLYPLPGWL GDFMCKFVNY IQQVSQATC ATLTAHSVDR WYTVFPLRA LHRRTPLAL AVSLSIWVGS AAVSAPVLAL HRLSPGPRAY CSEAFPSRAL ERAFALYNLL ALYLLPLLAT CACVAAMLRH LGRVAVRPAP ADSAHQGV L AERAGAVRAK VSRLVAANVL LFAACWGPQ LFLVLQALGP AGSWHPRSYA AYALKTWAH MSYNSALNP LLYAFLGSHF RQAFRRPRR PGPSPDAAPH AELHRLGSH APARQKPGS SGLAARGLCV LGEDNAPL CGGGGCCAC GTGCTGCTG CTGCGCGCT ACCTGACGCG CATGTGTCAT GCACTGGCTG A ACCTATCATG AGACCTGCT GCTGCTACA CTGTATGAA CCCACATCTG CTACACTGC CACCTGGTAC CAACGCTCT ACTTCTTA TGATGTCAT TGATGCTGC TACATGCTAG ACTGCGCTAT TCACCGATC CTGACAACT TTATCAGCA GACTGCCGG GCGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCATATGCG CTCCTCTTC TTCTGTGACA CCAGCGTTA CATAATCAT ACCACGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CCGCAGCCA AGCCTGAGT TTCAGGCACA CCATTCGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGCTTTACAC CCAGCTGAGG T cagcctctc acagctccc atagcctgga cctgcggcc ctcctccag gaccgaggg A ctccaaaggg aaactcaggc gctgtctgt ccaatgtca gtgaaccca gctggggcc tgccccctcg gaggggtca ccgagtgcc taccagtgc cttggagaga tccacaactg gaccgagctg cttgacctct tcaaccacac ttgtctgag tgcacgtgg agctcagcca gagcaceaa cgtgtgtg tcttgccc ctacctgg atgtttgtg ttgggctggt ggagaacctc ctggtgat ggtcaactg gcgaggctca ggcggggcag ggtgatgaa cctctacatc ctcaacatg ccatcgga cctgggcat tgcctgtct tgcctgtg gatgctggag gtcagctgg actacacct gctctgggg agcttctct gcgcttcac tcaactctc tactttgtca acatgtatag cagcatctc ttcctggtg gctcagtg cgaccgctat gtcacctca ccagcctc cccctctgg cagcgttacc agcaccagt gcggggggcc atgtgtgag gcatctgggt cctctcgcc atcatccgc tgcctgaggt ggtccacatc cagctggtg agggccctga cccatgtg ccttcatgg cacttttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatctgg gcttctgct gcccttccct ctcacacag tcttcaatgt gctgacagcc tgcgggctgc ggcagccag acaacccaag agcggggcc actgcttct gctgtggcc tacttggcc tcttggctat	Homo sapiens
478	160202 Adrenomedullin in Receptor (ADMR)	IG6564	CGGGGCCAC GTGCTGCTG CTGCGCGCT ACCTGACGCG CATGTGTCAT GCACTGGCTG A ACCTATCATG AGACCTGCT GCTGCTACA CTGTATGAA CCCACATCTG CTACACTGC CACCTGGTAC CAACGCTCT ACTTCTTA TGATGTCAT TGATGCTGC TACATGCTAG ACTGCGCTAT TCACCGATC CTGACAACT TTATCAGCA GACTGCCGG GCGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCATATGCG CTCCTCTTC TTCTGTGACA CCAGCGTTA CATAATCAT ACCACGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CCGCAGCCA AGCCTGAGT TTCAGGCACA CCATTCGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGCTTTACAC CCAGCTGAGG T cagcctctc acagctccc atagcctgga cctgcggcc ctcctccag gaccgaggg A ctccaaaggg aaactcaggc gctgtctgt ccaatgtca gtgaaccca gctggggcc tgccccctcg gaggggtca ccgagtgcc taccagtgc cttggagaga tccacaactg gaccgagctg cttgacctct tcaaccacac ttgtctgag tgcacgtgg agctcagcca gagcaceaa cgtgtgtg tcttgccc ctacctgg atgtttgtg ttgggctggt ggagaacctc ctggtgat ggtcaactg gcgaggctca ggcggggcag ggtgatgaa cctctacatc ctcaacatg ccatcgga cctgggcat tgcctgtct tgcctgtg gatgctggag gtcagctgg actacacct gctctgggg agcttctct gcgcttcac tcaactctc tactttgtca acatgtatag cagcatctc ttcctggtg gctcagtg cgaccgctat gtcacctca ccagcctc cccctctgg cagcgttacc agcaccagt gcggggggcc atgtgtgag gcatctgggt cctctcgcc atcatccgc tgcctgaggt ggtccacatc cagctggtg agggccctga cccatgtg ccttcatgg cacttttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatctgg gcttctgct gcccttccct ctcacacag tcttcaatgt gctgacagcc tgcgggctgc ggcagccag acaacccaag agcggggcc actgcttct gctgtggcc tacttggcc tcttggctat	Homo sapiens
479	160202 Adrenomedullin in Receptor (ADMR)	NM_007264	CGGGGCCAC GTGCTGCTG CTGCGCGCT ACCTGACGCG CATGTGTCAT GCACTGGCTG A ACCTATCATG AGACCTGCT GCTGCTACA CTGTATGAA CCCACATCTG CTACACTGC CACCTGGTAC CAACGCTCT ACTTCTTA TGATGTCAT TGATGCTGC TACATGCTAG ACTGCGCTAT TCACCGATC CTGACAACT TTATCAGCA GACTGCCGG GCGGCTGCG ATGCTGTGGT CCATTACTTG CTAAGGACCA GACCGCGGG GCATATGCG CTCCTCTTC TTCTGTGACA CCAGCGTTA CATAATCAT ACCACGGTG ATAGCCAGAC TGCTGCGAGC AACCGGCCAC CCGCAGCCA AGCCTGAGT TTCAGGCACA CCATTCGCTC GCAAAGACTT GCGCCATGTG TCCCACTCAG TGCTTTACAC CCAGCTGAGG T cagcctctc acagctccc atagcctgga cctgcggcc ctcctccag gaccgaggg A ctccaaaggg aaactcaggc gctgtctgt ccaatgtca gtgaaccca gctggggcc tgccccctcg gaggggtca ccgagtgcc taccagtgc cttggagaga tccacaactg gaccgagctg cttgacctct tcaaccacac ttgtctgag tgcacgtgg agctcagcca gagcaceaa cgtgtgtg tcttgccc ctacctgg atgtttgtg ttgggctggt ggagaacctc ctggtgat ggtcaactg gcgaggctca ggcggggcag ggtgatgaa cctctacatc ctcaacatg ccatcgga cctgggcat tgcctgtct tgcctgtg gatgctggag gtcagctgg actacacct gctctgggg agcttctct gcgcttcac tcaactctc tactttgtca acatgtatag cagcatctc ttcctggtg gctcagtg cgaccgctat gtcacctca ccagcctc cccctctgg cagcgttacc agcaccagt gcggggggcc atgtgtgag gcatctgggt cctctcgcc atcatccgc tgcctgaggt ggtccacatc cagctggtg agggccctga cccatgtg ccttcatgg cacttttga aacgtacagc acctggggcc tggcggtggc cctgtccacc accatctgg gcttctgct gcccttccct ctcacacag tcttcaatgt gctgacagcc tgcgggctgc ggcagccag acaacccaag agcggggcc actgcttct gctgtggcc tacttggcc tcttggctat	Homo sapiens

480	160202 Adrenomedullin NP_009195.1 in Receptor (ADMR)	MSVKPSWGPG PSEGTVAVPT SDLGEIHNTW ELIDLFNHTL SECHVELSQS TKRVVLFALY P LAMFVVGGLVE NLLVICVNRW GSGRAGLML YILNMAIADL GIVLSLPVWM LEVTDYTWL WGSFSCRFTH YFYFNMYS IFFLVCLSD RYVTLTSASP SWQRQHRVR RAMCAGIWL SAIIPLEVV HIQVEGPEP MCLFMAFFET YSTWALAVALL STTILGFLLP FPLITVFENVL TACRLRQPGQ PKRRRHCLLL CAYVAVFVVC WLPYHVITLL LTLGTHISL HCHLVHLLYF FYDVIDCFSM LHCVINPILY NELSPPHFRGR LNAVAVHILP KDQTKAGTCA SSSSCSTQHS IIITKGDQSP AAAAPHPEPS LSFQAHLILP NTSPISPTQP LTPS	Homo sapiens
481	160204 G Protein-Coupled Receptor RTA	atgagggttc tgcttccaaa gccatctctt ccagcaggag agggctctac tctgagctcc A tattttccaa ggctccgggc cgcgctcggc gctggcctgc tgccccggcg ggctccggcg ccggaggcgg gagtccagg aagagccctc cacaanaaga ggctccggcg gatcaggaca gctgcaggcg ggtgtcaga ctggtgagct gccagcagg gccagcagg gccagcagg gagatggctg gaaactgctc ctgggaggcc catcccgcca caggaaacag gatgtgccct ggcctgagcg agggcccgga actctacagc cggggcttcc tgaccatcga gcagatcgcg atgctgcgc ctccggcctg catgaactac atcttctgc tctctgcct ggtggcctg gtgggaacg ggtggttctc ctggttttcc ggcttctcca tcaagaggaa ccccttctcc atctacttcc tgaactggc cagcgcgat gtgggtacc tcttcagcaa ggcggtgttc tccatcctga acagggggcg ctctctggcg acgtttggcg actacatccg cagcgtgtgc cgggtctctg ggtctctgat ttctcttacc ggctgagcc tctgcccgc cgtcagcgc gagcgtgcg ctccggtcat ctccccgc ttgtaactggc gccggcggcc caagcgcctg tcggccgtgg tgtgcctct gctgtgggtc ctgtccctcc tggtaacctg cctgcacac tacttctgg tgttctggg ccgcccggcg cccggcggcg cctgcaggca catggacatc ttcctgggca tctctctgt cctgctctgc tgcccgctca tgggtgctgc ctgctggcc ctcatcctgc acgtggagtg ccggggccga cggcgccagc gctctgcaa gctcaaccac gtcatcctgg ccatggtctc cgtcttctc gtgtcttcca tctacttagg gatcgactgg ttctcttctt ggttcttcca gatcccgcc ccttcccg agtaactcac tgacctgtgc atctgcatca acagcagcg caagcccat gtctacttcc tggccgggag ggacaagtgc cagcggctgt gggagccgt cagggtgttc tccagcggg cctgcccga cggcgtgag ctgggggagg ccgggggag cagcccaac acagtaacca tggagatgca gtgtccccg gggaacccct cctgagactc cagcgcctgg aggaggcagg ggagggaag ggcctccaa acccttcgcc ttgggacagg aatgggcacc tgcttctgag tccatacagg agaagaaaga tctgttctct ctctcgggc ctcttctcc ctggctggg gactccagg gtggctggga gactgggag ccaccagcaa acagacctgt ggccctgcc cggctcccc accattctg ctccccctaga gacctctgt acagaagtgt cccccagggtg gtggggcccc tcttgcct aggctggtg gtaaaagaga ggaggtaaac acccagccta gccacctctg cctcttggt	Homo sapiens

482	160204 G Protein- Coupled Receptor RTA	CAC39840.1	<p>cagccctct tgactgtgtc ccagccagca ccaggccagc agcctcatcc ctgccattca</p> <p>gggtgttcc agagattcga tctctttaag gcattatcag tgagcaaatg tgaaggaat</p> <p>gggtgtcga agaaagtctt ggtcacatg ccttgtagct agtctttctt gcaacaacc</p> <p>tcccttccc ccgtcgagtc atttggtgac ttgatggggg ggattcttgg ttatgtcaag</p> <p>gctctggaga caggaagggc ctttggccgc cttgggtagt tgacctgcct ttctgactc</p> <p>ggggacgagc cagtcctagg gacgctctg gacgctctg ggtatccgc agccatgag</p> <p>gaccactgg cagtcctctg gacgctctt tggctccag cccaccgca aagtggacac</p> <p>tggtccgccc ctggccacct ggggactggc actgtgtgc acagtggccc aatgtggcca</p> <p>acggaagttt tataaagac aaaaagtata tcaataaaca ttttataact tgc</p> <p>MAGNCSWEAH PGNRNRMPG LSEAPELYSR GFLTIEQIAM LPPAVMNYI FLLCLCLGLV P</p> <p>GNGLVWFFG FSIKRNPFISI YFLHLASADV GYLFSKAVFS ILNTGGFLGT FADYIRSVCR</p> <p>VLGLCMFTG VSLPAVSAE RCASVIFPAW YWRRRPKRIS AVVALLMWL SLIVTCLHNY</p> <p>FCVFLGRGAP GAACRHMDIF LGILLFLCC PIMVLPCLAL ILHVECRARR RORSAKLNHV</p> <p>ILAMVSVELV SSIYLGIDWF LFVWFQIPAP FPEYVTDLCI CINSSAKPIV YFLAGRDKSQ</p> <p>RLWEPLRVVF QALRDGAEL GEAGGSTPNT VTMEMQCPFG NAS</p>	Homo sapiens
483	160206 G Protein- Coupled Receptor GPR32	NM_001506	<p>atgaatgggg tctcgaggg gaccagaggc tgcagtgaac ggcaacctgg ggtcctgaca A</p> <p>cgtgacgct cttgttccag gaagatgaac tcttccgat gcctgtctga ggaggtgggg</p> <p>tccctccgcc cactgactgt ggttatcctg tctgcgtcca ttgtcgtcgg agtgcgtggc</p> <p>aatgggctgg tgcgtggat gactgtcttc cgtatggcac gcaaggtctc caccgtctgc</p> <p>ttcttccacc tggcccttgc cgatttcatg ctctcatgt ctctgcccac tgcacatgtac</p> <p>tatatgtct ccaggcagtg gctcctcggc gagtgggctt gcaaatctca catcaccttt</p> <p>gtgttccca gctactttgc cagtaactgc ctcttgtct tcatctctgt ggaccttgc</p> <p>atctctgtcc tctacccctg ctgggcccctg aaccacgca ctgtgcagcg ggcgagctgg</p> <p>ctggcccttg ggtgtgtgct cctggccgccc gccttgtgt ctgcgcacct gaaatcccg</p> <p>acaaccagaa aatggaatgg ctgtacgcac tgcacttgg cgttcaactc tgacaatgag</p> <p>actgcccaga ttgtgattga aggggtcgtg gaggacaca ttatagggac cattggccac</p> <p>ttcctgctgg gcttctcgg gccccttagca atcataggca cctgcgccc cctcatccg</p> <p>gccaagctct tgcgggagg ctgggtccat gccaaccgccc ccaagaggct gctgctgggtg</p> <p>ctggtgagcg cttcttttat ctctgtgtcc ccgtttaacg tgggtgtgtt ggtccatctg</p> <p>tggcgacggg tgatgctcaa ggaatctac caccgccgga tctgtctcat cctccaggct</p> <p>agctttgctt tgggtgtgt caacagcagc ctcaacccct tccctacgt cttcgttggc</p> <p>agagatttcc aagaaaagt ttccagctct ttgacttctg cccctggcag ggcgtttgga</p> <p>gaggagagt ttctgtcat ctgtccccc ggcaacccc cccgggaatg a</p> <p>MNGVSETRG CSDRQPGVLT RDRCSRKNM SSGCLSEVG SLRPLTVVIL SASIVGVLG P</p> <p>NGLVLWMTVF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRKWNCGTH CYLAFNSDNE TAQIWIIEGV EGHIIIGTGH FLGLGLGPLA IIGTCAHLIR</p> <p>AKLLREGVWH ANRPKRLLLV LVSAFFIFWS PFNVVLIVHL WRRVLMKEIY HPRMLLILOA</p> <p>SFALGCVNSS LNPFLYFVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct cttccacctc tgcctgccc tgctgtgccc cttcctcttg tctagtgtc gtcaggagct A</p> <p>gactgcctcc agggctgga tctgtgtc cctctgtgcc cagagcccca cgtgtcggc</p>	Homo sapiens
484	160206 G Protein- Coupled Receptor GPR32	NP_001497.1	<p>gagagatttcc aagaaaagt ttccagctct ttgacttctg cccctggcag ggcgtttgga</p> <p>gaggagagt ttctgtcat ctgtccccc ggcaacccc cccgggaatg a</p> <p>MNGVSETRG CSDRQPGVLT RDRCSRKNM SSGCLSEVG SLRPLTVVIL SASIVGVLG P</p> <p>NGLVLWMTVF RMARTVSTVC FFHLALADEM LSLSLPIAMY YIVSRQWLLG EWACKLYITF</p> <p>VFLSYFASNC LLVFISVDRS ISVLYPVWAL NHRTVQRASW LAFGVWLLAA ALCSAHLKFR</p> <p>TTRKWNCGTH CYLAFNSDNE TAQIWIIEGV EGHIIIGTGH FLGLGLGPLA IIGTCAHLIR</p> <p>AKLLREGVWH ANRPKRLLLV LVSAFFIFWS PFNVVLIVHL WRRVLMKEIY HPRMLLILOA</p> <p>SFALGCVNSS LNPFLYFVG RDFQEKFFQS LTSALARAFG EEEFLSSCPR GNAPRE</p> <p>cagcctccct cttccacctc tgcctgccc tgctgtgccc cttcctcttg tctagtgtc gtcaggagct A</p> <p>gactgcctcc agggctgga tctgtgtc cctctgtgcc cagagcccca cgtgtcggc</p>	Homo sapiens
485	160210 G Protein- Coupled	NM_004778	<p>gactgcctcc agggctgga tctgtgtc cctctgtgcc cagagcccca cgtgtcggc</p>	Homo sapiens

Receptor
GPR44
(CRTH2)

caacgccaca ctgaagccac tctgccccat cctggagcag atgagccgtc tccagagcca
cagcaacacc agcatcgct acatcgacca cgcggccgtg ctgctgcacg ggtggccctc
gctgctggc ctggtggaga atgagtcac cctcttcgtg gtgggtgcc geatgcgcca
gaccgtggtc accacctggg tgcgtcacct ggctgtgtcc gacctgttgg cctctgtctc
cctgccccctc ttacactact tcttgacctg gggtccactcg tggagcttgg gaaccacctt
ctgcaaaactg cactctcca tcttcttct caacatgttc gccagcggct tctgtctcag
cgccatcagc ctggaccgct gectgcaggt ggtgcggccg gtgtggcgc agaaccaccg
caccgtggc cgggcgcaca agtctgctt ggtgcttgg gcactagcgg tgcctaacac
ggtgcctat ttgctgttcc ggacacacat ctgcggctg gacgggcgca ttatgtgcta
ctacaatgtg ctgctcctga accggggcc tgcgcgcat gccacgtgca actcgcgcca
ggcgccccctg gccgtcagca agtctctgct ggcttctctg gtgcgctgg cgtatcatgc
ctcgagccac cgggcgctga gcctgcggtt gcagcacgc ggccgcccgg gccagggccg
cttcgtgccc ctggtggcag cgtcgtggc cgccttcgct ctctgctggg ggccctacca
cgtgttcagc ctgctggagg cgggggcgca cgcacacccc gggtgcggc cgtcgtgtg
gcgcgggctg ccttctctca ccagcctggc ctcttcaac agcgtggcca acccgtgct
ctacgtgctc acctgcccc acatgctgcg caagctggcg cgtcgtctgc gcacggtgct
ggagagcgtg ctggtggacg acagcgagct ggtggcgcg ggaagcagcc gccgcgcgcg
cacctctcc accgcccgt cggcctccc tttagctctc tgcagccgcc cggaggaaac
gcggggcccc gcgcgtctcc tgggtggct gctgggcagc tgcgagcgt cccgcagac
ggggccccctg aaccgtggcg tgcgagcagc ctgcagttag aaccggccc acgtaggcg
gcactcacac gcgaaagtat caccagggtg ccgcggttca attcgatctc cggactcctg
ccgcagtgat caaagtccga ggggcgggac ccaggcacct gcattttaa gcgccccggg
agactctgaa tcttttcag aaacagtgag ttaaagcagt gcttctcaa ccttgatgtg
cctgtgaatc acctaggggt ctgtttaagt gcagtcctgat ccaggaggcc gggtccgggt
actgagagtc tgcacttaac aagctcccag gccgagaagc cagtgcggca ggttcacagg
cgaggccctgg agtaacacaa agtgaaactc gtaatagact tcccactcta gggcagtgga
gtcggaaagg cacacggggt gcgtctccc ggagttcagt ttaccagat gatgggggag
gggggaaggga gtttatgtt aaaccatcca tgtatttttg gagaagagag aggaaggtt
tgagaagcac tgttcagcc tgcctctctc attagccaa tgcctactgc gctagacgct
tcattcccaca atcttaaggg gcagcttcta ttacccagtc ttacagctg agcacattct
ggctcaggga ggttaagtga cttgcccagt ttacgggcta acgaccacag ggtctgcact
ctaaccctag gcatcacatg ctcaatgact ctctggtgag cgagacatt ctctgacct
ctcgagggac ttaagatgct acctgtgac ccagcactgc ccaagtgtct tccaggcag
aagcagcagg ggtggcgtg gtcaagcact cgggaaacct gggtctaact aaatccaatg
ggggaaatga ctaaaagctc tgggtcgta gaagttgaat ggacacagca actctaagac
tacagcacac gtcatttctt agctaagcgg accagcctcc ctgtcggcct ggtgttctgt
gggatcccc cttgggactgg taatcccaag atctgtgcag cccgcctcc aggccacatg
gggtctggga gctaccattt ccttttgcg gatgggagg gtaacttgca cctctgacct
atcacttcca ctgcacccc tctcattcct ccacctgccc tggacttggg gtcagagact
gctgtgttgg agctctgcag ccacgggacc gaaaagtgg tgcataatgaa tttgtcttgg
tggatgaaat gtcagtggaa gaagcagatg agaaactctt gagatcttgg tctgtgtt

486	160210 G Protein-Coupled Receptor GPR4 (CRTH2)	NP_004769.1	MSANATLKPL MRQTVVTWV LHLAISDLLA SASLPFFTYF LVAHSHWELG TTFCKLHSSI FFLNMFASGF LLSAISLDRCLQVVRPWAQ NHRVTAAAHK VCLVLWALAV LNTVPYFVFR DTISRLDGRIMCYNNVLLN PGPDRCATCN SFOALAVSK FLALFLVPLA IIASSHAAVS LRLQHRGRRR PGRFVRLVAA VVAAPALCWG PYHVFSLLEA RAHANPGLRP LVNRGLPFVT SLAFFNSVAN PVLVYLTCPD MLRKLRRSLR TVLESVLVDD SELGGAGSSR RRRSTSSTARS ASPLALCSRP EEPRGPARLL GWLLGSCAAS PQTGPLNRAL SSTSS	Homo sapiens
487	160212 G Protein-Coupled Receptor GPR52	NM_005684	atgaatgaat ccagggtggac tgaatggagg atcctgaaca tgagcagtggt cattgtgaat A gcgtccgagc gtcactcctg cccacttggg tttggccact acagtgtggt ggaatgctgc atcttcgaga cagtgttat tgtgtgtctg acatttctga ttattgtctg gaatacaaca gttatcttgg ccttcattg tgcctcactg ttacatcatt atactaccag ctatttcatt cagacgatgg catatgctga tcttttcgtt ggagttagct gcttgggtcc tactctgtca cttctccact actccacagg tgtccacgag tcattaaact gccgggtttt tggatatatc atctcagttc taaaaagtgt ttctatggca tgcctgtcctt geatcagtggt ggtcgtttat cttgcataaa ccaagcctct ttctacaaat caactgttca ccccttgctg ctttgagaaat tgcattattt tgatctggat ctactcctgc ctaatttct tgccttcctt ttttggctgg gggaaacctg gttaccatgg tgacattttt gaatgggtgtg caacgtcttg gctcaccagt gcctatttta ctggctttat tgtttgctta ctttatgctc ctgtgctcct tgttgtctgc ttcacctact tccacatttt caaaatttgc cgtcagcaca ccaaagagat aaatgaccga agagcccgat tccctagtca tgaggtagat tcttccagag agactggaca cagccctgac cgtcgctacg ccattgtttt gtttaggata accagtgat ttatatgct tgggtctccc tataataatt actttcttct agaaagctcc cgggtcttgg acaatccaac tctgtctctc ttaacaaact ggcttgtagt aagtaaatgt ttttgaact gtgtaataa cagcctctcc aacggcggtt tccggctagg cctccgaaga ctgtttgaga caatgtgac atcctgtatg tgtgtgaagg atcaggaagc acaagaaccc aaacctagga aacgggctaa tcttgcctcc atttga	Homo sapiens
488	160212 G Protein-Coupled Receptor GPR52	NP_005675.1	MNESRWTEWR ILMSSGIVN ASERHSCPLG FGHYSVDVVC IFETVIVLL TFLIIAGNLT P VIFAFHCAPL LHHYTSYFI QTMAYADLFV GVSCIVPTLS LLHYSTGVHE SLTCRVFGYI ISVLKSVSMA CLACISVDRY LAITKPLSYN QLVTPCLRRI CIILIIWYSC LIFLPSFFGW GKPGYHGDI F EWCATSWLTS AYFTGFIVCL LYAPAAFWVC FTFHFIFKIC RQHTKEINDR RAREPSHEVD SSRETGHSPD RRYAMVLFRI TSVFYMLWLP YIIYFLLSS RVLDPNPTLSF LTTWLAVSNS FCNCVIYSL S NGVFRGLRR LFETNCTSCM CVKDQEAQEP KPRKRANSCS I	Homo sapiens
489	160217 G Protein-Coupled	NM_005683	atgatgcagc aaaaacaccag tggggactgc ctgtttgacg gtgtcaacga gctgatgaaa A accctacagt ttgcagtcca catcccacc ttcgtcctgg gcctgctct caacctgctg	Homo sapiens

Receptor GPR55	160217	G Protein- Coupled Receptor GPR55	NP_005674.1	Homo sapiens	

493	160221	G Protein- Coupled Receptor GPR27	NM_018971	QDSLCTILA	atggcgaaag cgagcgagcc ggtgagcagc ggcggcgagg aggcggcgcc cctgggcctc A aagctggcca cgtcagcct gctgctgtgc gtgagcctag cgggcaacgt gctgttcgag ctgctgateg tgcgggagcg cagcctgcac cgcgcgccgt actacctgct gctcgacctg tgcttgcccg acgggctgcg cggcgtcgcc tgcctccgag cgtcatgct ggcggcgagg cgtgcggcg cgcggcgagg ggcggcgagg ggcggcgagg gctgcaagct gctcgccctc ctggccgagc tcttctgctt ccacgcgcgc tctcgtgctc tgggctgggg cgtcacccgc tacctggcca tgcgcacca cgccttctat gcagagcgcc tggcgggctg gccgtgcgc gcatgctgg tgtgcggcg cttggcgctg gcgctgagcc cggcctccc gccagtgtg gacggcggtg gcgagcgagc ggcggcgccg tgcgccccg agcagcgcc cgcggcgcc ccggcgccg tgggcttctt gctgctgctg gccgtggtgg tggcgccac gcacctgctc tacctccgct tgccttctt catccagac cgcgcgaaga tgcggccgc gcgctggtg ccgcgctca gccagactg gacctccac ggcggcgcc ccaecggcca ggcggcgcc aactggagcg cgggcttctg cgcggggccc agccgcccgc cgttgttggg catccggccc gcagggcgg ggcggcgcc gcgcggcctc ctgctgtgg aagaattcaa gacggagaa aggctgtgca agatgttcta cgcgctcac ctgctcttcc tgcctctctg ggcgccccac gtcgtggcca gctacctgc ggtcctggtg cggccccgag ccgtccccc ggcctacctg acggcctccg tgtgctgag ctgcgcgag gccgcgtatc acccgtcgt gtgcttctc ttcaacagg agctgaggga ctgcttcagg gccagctcc cctgctgcca gagccccgg accacccagg cgaccatcc ctgcgacctg aaagcattg gttatga MANASEPGS GGGEAAAGL KLATLSLLC VSLAGNVIFA LLIVRSLH RPYVLLLDL P CLADGLRALA CLPVMIAAR RAAAAGAPP GALGCKLIAT LALFCFHAA FLILGVGVR YLAIHHRFY AERLAGWPCA AMLVCAAWAL ALAAFPVPL DGGDEDEDAP CALEQRPDGA PGALGFLLLL AVVVGATHLV YRLFFIHD RRMRPARLV PAVSHDWFH GPCATGQAAA NWTAGFGRGP TPPALVGI RP AGPGRGARRL LVLEEFKTEK RLCKMFYAVT LLFLLWGPY VWASYLRVIV RPGA VPAQYL TASWLTFAQ AGINPVVCFE FNRELDCFR AQFPCCQSPR TTQATHPCDL KGIGL	Homo sapiens
494	160221	G Protein- Coupled Receptor GPR27	NP_061844.1		atgggtccctc acctttgtct gctctgtctc ctcccttgg tgcgagccac cgagccccac A gagggccggg ccgacgagca ggcgcggag gcggccctgg ccgtgcccac tgcctcgac ttcttctctt ggaacaacta cacttctcc gactgtgaga acttgttgg caggagcg tacggcgctg agtccagaa cccacgggtg aaagccctgc tcatgtggc ttactcttc atcattgtct tctcactctt tggcaacgtc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctgg cagttgcca cataatgatc acgctgtcca acacccctt cactttggtt cgttttgtga acagacatg gatatttggg aaggcatgt gccatgtcag ccgcttggcc cagtactgct cactgcacgt ctcagcactg acactgacag ccattgcggt ggatcgccac caggtatca tgaacccctt gaaacccgg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tactccccc atgtatctg ccagaaatta ttacattca aatacagtga ggacattgtg cgctccctct gctgcccaga ctccctgag ccagctgacc tctctggaa gtacctggac ttggccacct tcatctgtct ctacatctct cccctctca tcatctctgt gccctacgct	Homo sapiens
495	160222	G Protein- Coupled Receptor GPR72	NM_016540		atgggtccctc acctttgtct gctctgtctc ctcccttgg tgcgagccac cgagccccac A gagggccggg ccgacgagca ggcgcggag gcggccctgg ccgtgcccac tgcctcgac ttcttctctt ggaacaacta cacttctcc gactgtgaga acttgttgg caggagcg tacggcgctg agtccagaa cccacgggtg aaagccctgc tcatgtggc ttactcttc atcattgtct tctcactctt tggcaacgtc ctggtctgtc atgtcatctt caagaaccag cgaatgcact cggccaccag cctcttcac gtcaacctgg cagttgcca cataatgatc acgctgtcca acacccctt cactttggtt cgttttgtga acagacatg gatatttggg aaggcatgt gccatgtcag ccgcttggcc cagtactgct cactgcacgt ctcagcactg acactgacag ccattgcggt ggatcgccac caggtatca tgaacccctt gaaacccgg atctcaatca caaagggtgt catctacatc gctgtcatct ggaccatggc tacgttctt tactccccc atgtatctg ccagaaatta ttacattca aatacagtga ggacattgtg cgctccctct gctgcccaga ctccctgag ccagctgacc tctctggaa gtacctggac ttggccacct tcatctgtct ctacatctct cccctctca tcatctctgt gccctacgct	Homo sapiens

496	160222 G Protein- Coupled Receptor GPR72	NP_057624.1	<p>cggtggcca agaaactgtg gctgtgtaat atgattggcg atgtgaccac agagcagtac ttagccctgc ggcgcaaaaa gaagaagacc atcaagatgt ttagtctggt gtagtcctc ttagccctct gctggttccc cctcaactgc tacgtctccc tctgtccag caaggtcatc cgcaccaaca atgcctctta ctttgccttc cactgggttg ccatgagcag cacttgctat aacccttca tatactgctg gctgaacgag aacttcagga ttgagctaaa ggcattactg agcatgtgc aaagaactcc caagcctcag gaggacggcg aacctcccc agttccttcc ttcaggggtg cctggacaga gaagaatgat ggcagagggg ctcccttgc caataacctc ctgccacct cccaaactcca gtctgggaag acagactgtg catctgtgga acccattgtg acgatgagtt agaagaggtt gggaagaggg agtgggaggg gtcgtctcc acctgagga gggaaagaga gctattctc acacatgac ttcagagtgc tggaaacaca ctcctgcaga aggctgtagg actcttgaat tcttaggaaa ctgtccagcc tcttagcccc atgtgatgtg aaaaactaaa ggcaccacca actagacatg tgttcataaa tcccatcta agaaacatg ggaggcacag cagcotgtat ctctgaggaa gaggagcgag gacaaagtgt gccagatgg gggctgaatc attcaactgc ctccatctgt gggcgagctg ctgctttaca gcccttcta ctagactgag catccgaag gagacctaaa tcatacttg ggtgtggtga cccagatgca cagagctctg cttgaacaag gtacacggcg cagggaatg ccagcaa</p>	Homo sapiens
497	160223 G Protein- Coupled Receptor G2A	NM_013345	<p>gggagggtg cgaaggtagc cagcaggcg gggccctggg tcattttaaa ctctcagagt A gaactgttg ataggaccga caagacgcat gacatgtact tagatagctt atcttagagc cacactgaga ttggaacccg caaaatatgc cagggaggaa ggtgagcaag ggacacgaca ctcacccgga taaacccaac aagcgcagcg aggtgtggg gaaaccggan cctgacac cgccggggga aggtgggcn cgccaccac cgtggaagaa agcgcggan gacccccag agatgagacg gaactgccgt gagatccagc aatnccnact gtgggtctga cccaggatan cggaagacag ggacgtgaac agcctcttc atgttcttga caccgtcatt ctccagcagt cagctaaggc acagaggcag ccgagcgtct gtcagcagag togtggctga gcagaacag ccacacgcca cagccacac gccacactg caggattgct caagatgga gggcacagtg gaatatatat atatatatat atttttggcg agacctgga ggacacactg aatacaatgg aataccatcc cgcctttgaa aggaaggaa atctctggac acgtgcaac aggagggagc ttgaggacac tgtgtgtgagt ggagcacgtg agacacggaa ggacacacg tgaagacacg cagagatgcc caccacgtg gggaggtgac aggggagccc agcgcacaga gacaaagtgg aatggaggcc tgggggctgg gagcaaatgc gtagcagtg cttcctgggg cagagtctcc gtttgggaag atgagaaggt tctgccgacg gatgtggcg atgtgtgac aagaatgtga atgtgcccc tgctactgaa aaacggttac aatgaaacg cccccagt gaccaccact gccccgtggg cctccctggg cctctcggc aagacctgca acaactgtc ctccgaagag</p>	Homo sapiens

498	160223	G Protein- Coupled Receptor G2A	NP_037477.1	<p>agcaggatag tctgtgtcgt ggtgtacagc gcggtgtgca cgctgggggt gcgagccaac tgcctgactg cgtggctggc gctgtgcag gtactgcagg gcaactgtgt ggcgtgtctac ctgctctgcc tggcaactctg cgagctgctg tacacaggca cgctgccact ctgggtctac tatatccga accagcaccg ctggacccta ggcctgtctg cctgcaaggt gaccgacctac atcttctct gcaacatcta cgtcagcacc ctcttctctg gctgcatctc ctgagaccgc ttcgtggccg tgggtgtacgc gctggagagt cggggcgccc gccgcggag gaccgacctc ctcatctccg cctgcatctt catctcgtc gggatgctc actaccggt gttccagacg gaagacaagg agactgtctt tgacatgctg cagatggaca gcagattgc cgggtactac tacgccaagt tcacggttg ctttgccatc cctctctcca tcctgcctt caccacccac cggattttca ggagcatcaa gcagagcatg ggcttaagcg ctgcccagaa gcccaaggtg aagcactcgg ccactcgggt ggtgtgtcct ttctagtct gcttcgccc gtaccacctg gttctctctg tcaagccgc tgccttttcc tactacagag gagacaggaa cgccatgtgc ggcttgagg aaagctgta cacagcctct gtggtgttct tgtgctgtc caggtgaaac ggcgtggctg acccattat ctactgtctg gccacggacc attcccgcca agaagtgtcc agaatccata aggggtggaa agagtgttcc atgaagacag acgtcaccag gctcaccac agcagggaca ccgaggagct gcagtcgccc gtggcccttg cagaccacta caccttctcc aggccgtgc acccaccagg gtcaccatgc cctgcaaga ggtgattga ggagtctctc tgagccact gtgtggcagg gggatggcag gttgggggtc ctggggccag caatgtggtt cctgtgact gagccacca gccacagtgc ccattgcccc ctgggaagac aaactaccaa ttctcgttc ctgaagccac tccctcgtg accactggcc ccangcttcc ccacatggaa ggtggctgca tgccaagggt aagagcgaca cctccagctt cccgggagcc canagagcat gtggcangca gtggggcctc ttcacatca ncctgctgg ctggctccct tggctgtggg cangtacacc cctgctggca gaagtacctg gtgctgccc tgtcgcac agtggcgatg actttattg cggagcattt ctgcaagcgt tgctgggatg cgtggtgca ttgtggccc tctgggctcc tgctcaaaa tgtcagtgag caccatgctg gaagtcacca tcactgtggc agcgcacagg aaggcatagg gcancctacc acctccaang gggcangcgc cctcatctgg ggttggtg</p> <p>CLTAWLALLQ VLQGNVLAVY LLCLALCELL YTGTLPLMWI YIRNQHRWTL GLLACKVTAY IFFCNIYVSI LFLCCISCDR FVAVVVALES RGRRRRTAI LISACIFILV GIVHYPVFQT EDKETCFDML QMDSRIAGYY YARFTVGFAP LLSIAFTNH RIFRSIKQSM GLSAAQKAKV KHSIAIAVVI FLVCFAPYHL VLLVKAAPS YYRGDRNAMC GLEERLYTAS VVFLCLSTVN GVADPIIYVL ATDHSRQEVSI RHKGWKEWS MKTDVTRLTH SRDTEELQSP VALADHYTFS RPVHPGSPC PAKRLIEESC</p>	Homo sapiens
499	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NM_004767	<p>cggtgtacagg gggcccaaga gctgggctg ctgtctctg ctcatccagc catgctgtgg A ctgtggccc tggctgtctc tctgtctgtg attttggctg tggggctaag cagggtctct gggggtgccc cctgcacct ggccaggcac agagccgaga cccaggagca gcagagccga tccaagagg ggacccagga tgaggaggcc aaggcgctgc agcagtatgt gcctgaggag tggcgaggagt accccggcca cattaccct gctggcctgc agccaacca gcccttggtg gccaccagcc ctaaccccca caaggatggg ggaacccccc agagtggga ggaactgagg ggcaatctga caggggcacc agggcagagg ctacagatcc agaaccctt gtatccggtg</p>	Homo sapiens

500	160224	Endothelin Type B Receptor- Like Protein 2 (ETBR-LP- 2)	NP_004758.1	<p>accgagagct cctacagtgc ctatgccatc atgtctctgg cgctggtggt gtttgcggtg ggcattgtgg gcaacctgtc ggtcatgtgc atcgtgtggc acagctacta cctgaagagc gcctggaact ccatccttgc cagcctggcc ctctgggatt tctggtccct etttttctgc ctccctattg tcatcttcaa cgagatcacc aagcagagcc tactgggtga cgtttcttgt cgtgccgtgc ccttcattgga ggtctctctc ctgggagtcga cgactttcag cctctgtgcc ctgggcatlg accgcttcca cgtggccacc agcaccctgc ccaaggtgag gccatcagag cggtgccaat ccatcctggc caagtggct gtcattcggg tgggtcccat gacgtggct gtgcctgagc tctgtctgtg gcagctggca caggagcttg ccccaccat gggcacccctg gactcatgca tcatgaaacc ctacagccagc ctgcccgagt cctgtattc actggtgatg acctaccaga acgcccgcct gttggtgtac tttggtgct actctgcct gccatcctc ttcacagtca cctgccagct ggtgacatgg cgggtggag gccctccagg gaggaagtc gagtgcaggg ccagcaagca cgagcagtg gagagccagc tcaacagcac cgtggtggc ctgaccgtgg tctacgcctt ctgcaccctc ccagagaacy tctgcaacat cgtggtggc tacctctoca ccgagctgac ccgccagacc ctggacatcc tgggctcat caaccagttc tccaccttct tcaaggggcg catcacccca gtgctgtcc ttgcatctg caggccgctg ggccaggcct tctggactg ctgctgtgc tctgtctgt aggagtgagg cggggcttcg gagcctctg ctgccaatgg tctggacaac agctcaaga ccgaggtgtc ctctccatc tacttccaca agcccaggga gtcaccccca ctctgcccc tggcacacac ttgctgaggc cccagtaggg gtggggaggg agggagaggg gccaccccc gccggtgtct gctgttctt ccccataggt ctgtcttctg tgcctgtctt gctgtctagg gatggacttg gttcctcttg tcaaggttg ggaatccg</p>	Homo sapiens
501	160225	Sphingolipid Receptor Edg6	NM_003775	<p>gagteagccc ccgggggagg ccatgaacgc cagggggacc ccggtggccc ccgagtcctg A ccaacagctg gcggccggcg ggcacagccg gctcattgtt ctgcactaca accactcggg ccggttgccc ggccgcccgg ggccggaggga tggcgccctg ggggccctgc gggggctgc ggtggccgcc agctgcctgg tgggtgctgga gaactgtctg tggctggcgg ccataccag ccacatgcgg tgcgacgct gggctacta ttgctcgttg aacatcacgc tgagtgaact gctcacgggc gcggcctacc tggccaaagt gctgtgtcg gggggccgca ccttcgctt ggcggccgcc cagtgttcc tacgggaggg cctgtcttc accgccctgg ccgctccac cttcaggctg ctcttactg caggggagcg ctttgccacc atggtgcggc cggtgccga gagcggggcc accaagacca gccgcgtcta cggctctatc ggcctctgct ggctgtggc cgcgtgctg gggatgctgc ctttgctggg ctggaactgc ctgtgcgct ttgaccgctg ctccagcctt ctgcccctct actccaagcg ctacatctc ttctgcctg tgatcttcg</p>	Homo sapiens

502	160225	Sphingolipid NP_003766.1	Receptor Edg6	<p>cggcgtcttg gccaccatca tgggcctcta tggggccatc ttccggcctgg tgcaggccag cgggcagaag gccccacgcc cagcggccc cgcgaaggcc cgccgcctgc tgaagacggt gctgatgc ctgtggcct tctgtgtgtg ctggggccca ctctcgggc tctgtctggc cgacgtcttt ggctccaaac tctggggcca ggagtacctg cggggcatgg actggatcct ggccctggcc gtctcaact cggcgggtcaa ccccatcatc tactccttc gcagcaggga ggtgtgcaga gccgtgtctc gcttctcttg ctgcgggtgt ctccggctgg geatgcgagg ccccggggac tgcctggccc ggccgctcga ggctcactcc ggagcttcca ccaccgacag ctctctgagg ccaagggaca gcttcgcg ggctccgctcg ctacgtcttc ggatgcggga gccccgtcc agcatctcca cgtgcggag catctgaagt tgcagtcttg cgtgtggatg gtgcagccac cgggtgcgtg ccaggcaggc cctcctgggg tacaggaagc tgtgtgcacg cagcctcgcc tgtatgggga gcagggaacg ggacaggccc ccatggtctt cccggtggcc tctcggggct tctgacgcca aatgggcttc ccatggtcac cctggacaag gaggtaacca ccccacctcc ccgtaggagc agagagcacc ctggtgtggg ggcgagtggg tcccacaac cccgcttctg tgtgattctg gggaaagtccc ggccctcttc tgggctctcag tagggctccc aggctgcaag ggtgggactg tgggatgcat gcctggcaa cattgaagtt ccatcatggt aaaaa</p>	Homo sapiens
503	160228	T-Cell Death-Associated Gene 8 (GPR65)	NM_003608	<p>atgaacagca catgtattga agaacagcat gacctggatc actatttgtt tccatttgtt A tacatctttg tgattatagt cagcattcca gccaatattg gatctctgtg tgtgtctttc ctgcaaccca agaaggaaag tgaactagga atttacctct tcagtttgtc actatcagat ttactctatg cattaactct cctttatgg attgattata ctggaaataa agacaactgg actttctctc ctgccttctg caaaggaggt gcttttctca tgtacatgaa gttttacagc agcacagcat tctcacctg cattgccgtt gatcggtatt tggctgttgt ctaccctttg aagttttttt tcttaaggac aagaagaatt gcactcatgg tcagcctgtc catctggata ttggaaacca tcttcaatgc tgtcatgttg tgggaagatg aaacagttgt tgaatatgtc gatgccgaaa agtctaattt tactttatgc tatgacaaat accctttaga gaaatggcaa atcaacctca actgtgtcag gacgtgtaca ggctatgcaa taccttttgt caccatcctg atctgtaacc ggaagtcta ccaagctgtg cggcacaata aagccacgga aaacaaggaa aagaagagaa tcataaaact acttgtcagc atcacagtta ctttgtctt atgtttact ccctttcatg tgatgttgtt gattcgtgc attttagagc atgtgtgtaa cttcgaagac cacagcaatt ctgggaagcg aacttacaca atgtatagaa tcacggttgc attaacaagt ttaaattgtg ttgtgatcc aattctgtac tgttttgtta ccgaacacagg aagatatgat atgtggaata tattaaaatt ctgcactggg aggtgtaata catcacaag acaagaagaa cgcatacttt ctgtgtctac aaaagatact atggaattag aggtccttga gtag</p>	Homo sapiens

504	160228	T-Cell Death- Associated Gene 8 (GPR65)	NP_003599.1	MNSTCIEEQH LLYALTPLW KFFFLRTRRI INLNLFRCT PFHVMILLIRC MWNILKFCGT RCNTSQQRK RIILSVSTKDT MELEVLE	DLHDYLPPIV IDYTNWKNW ALMVSLSIWI GYAIPLVITL ILEHAVNFED RCNTSQQRK RIILSVSTKDT MELEVLE	YIFVIIVSIP TFSPALCKGS LETIFNAVML ICNRKVYQAV HSNSGKRITY RIILSVSTKDT MELEVLE	ANIGSLCVSF AFLMYMKFYS WEDETVEYC RHNKATENKE MYRITVALTS LNCVADPILY CFVTETGRYD	P	Homo sapiens
505	160300	Encephalopsi n	NM_014322	cgagcccgcc ctcgggggac ggggccggcg gcgctggcg gctcgtccct catcagccct cctgagggaac cctcttcggg cgtgggtccat gctctactca cgtacacgga tgtgcttttc tggccatatt agtgcataag caccttcctg tggtcacctg tgtatacaat gcttctgtgc aagtgaatg aaaagtgact agttgacgac tttgtaggaa ctttcatcat aaccttgtgg ttgaacaaaa tgcacacgat tatatttttt tactgtaaaa tttgtactgt taattctaga gtatgacaaa cagagggaatc gactcaaaagc tgtatatata atttccca	cgaaagtga cgagcgcg cgagcgggga ctgctgctgg tactacaagt agcgacctgc ggctgggtgt attgtttcca gccagagtga ctggcgtggg ctaggctgca ttatttttg ctataattcca attttaaat gtctgttggga gtccttatat gtcactccaa ccagtgaatt ctcggactgc cagatcagac ttcaactctt agcgacaaaa tgaaggatgg cctcctgaag tccagcagga acaaattctt gggcatctaa aaattactct ataactgtcg tgagctctat atgaaaaaga gaggagtctc tacaaggcaa tctttttctt gccaggaggt tatatatatt	gcgctccgc gccagggcta cactgagccc gtcccatggg tccagcggt tggtgtccct gggacacctg ttgccacct tcaatttttc caggagcacc ctgtggactg gtgcctgggt ttcgaaatgct ttcgaaatgct tgccttatgc cattgtgctg ccattgtgat cttccatcat ccattggggt caacgaaaag agaagtgtc aatcgaatt ttaatccaac catcatcatc attttccaaa cgtacacatg tgatgtcat gttcctctct aaatcctctt actcccatat tggtttgttg tctaatgacg atatacccg	cgccggcgcc ggcgggccg ttcagccccc gtcggaaca atccactcc acctttacct tgggacgggt gcctatgaac aggccatta tggaaacagg gatgccaacg gggtgcatag gaagatcttc atgtcttttt ttctgtggg ctctttgcta tttcgaaga aatgacctac gatggggaca gtcggggaca accagtgtg atgttaatcc aatggatgc gttctatgta tcttggccct cataatgaaa tggagatgtg ttctaattgtg acacgtaattg catttttctc ctagaacata tgatcaagtt aaagacgttt gtcagcctgg cccaaattgc aatttactgt agatttgctc atgtttgttt	gggcatgta cgggcgctga gcacctacga acctgctggt acatccctga attcctcctt ccattgcta agacaattca taatgatatt ttaatggta aatcgaaacac cccttttga cacctgtgg gagcagctgg gtcacagaaa cagcagctgg gaggaagagg aacccacttg tcatttcaaa gaaaatacct ctgaattttt atcaaggaga tatatgtgca agaccagcac tgccccata tctttgtcga atccctctgt taaaaaaaa	

Accession	Gene	Protein	Species
160300	Encephalopsin		Homo sapiens
160312	Sphingolipid Receptor Edg5		Homo sapiens
160312	Sphingolipid Receptor Edg5		Homo sapiens
160314	G Protein-Coupled Receptor GPR103		Homo sapiens

Homo
sapiens

510 160314 G Protein- ENSMPRT2217 53 KIGYELWIKK P
Coupled Receptor
GPR103

attcccggtca ccattgtcca gaacatttcc gacaactggc tgggggggtgc ttccatttgc
aagatgggtgc catttgtcca gtctaccgct gttgtgacag aaatcctcac tatgacctgc
attgtgtgtg aaaggacca gggacttgtg catcctttta aaatgaagtg gcaatacacc
aaccgaaggg ctttcaaat gctaggtgtg gttcggctgg tggcagtcac cgtaggatca
cccatgtggc acgtgaaca acttgagatc aaatatgact tctatatga aaaggaacac
atctgtgct tagaagagt tagcagccct gtgcaccaga agatctacac cacttcac
ctgtcaccct ctctcctctg cctcttatgg aagaagaaac gagctgtcat tatgatggg
acagtgggtg ctctcttgc tgtgtgctgg gcaccattcc atgtgtcca tatgatgatt
gaatacagta atttgaaaa ggaatatgat gatgtcaca tcaagatgat tttgtctatc
gtgcaaaatta ttggattttc caactccatc tghtaaccoc ttgtctatgc attatgaat
gaaaacttca aaaaaatgt ttgtctgca gtttgttatt gcatagtaaa taaaaccttc
tctccagcac aaaggcatgg aaattcagga attacaatga tgcggaagaa agcaaaagttt
tccctcagag agaattccagt ggaggaaacc aaaggagaag cattcagtga tggcaacatt
gaagtcaaat tgtgtgaaca gacagaggag aagaaaaaag tcaaacgaca tcttgctctc
tttaggtctg aactggctga gaattctctc ttagacagtg ggcattaa
MKIKYDFLYE KEHICGLEEW TSPVHQKIYT TFIILVILFLL PLVMILLIYS KIGYELWIKK P
RVGDGSLVLR IHGKENS KIA RKKRAVIMM VTWVLFVAVC WAPFHVHMM IEYSNFEKEY
DDVTIRMIFA IVQIIIGFSNS ICNPIVYAFM NENFKKNVLS AVCYICVINKT FSPAQRHNS
GITMMRKAK FSLRNPVEE TKGEAFSDGN IEVKLCEQTE EKKLKRHLA LFRSELAENS
PLDSG

Homo
sapiens

511 160317 Neuropeptide NM_004885
FF 2
Receptor

tctggagcca agtaatgggtg atactgatgc ttctttttct ttgcgcgct cggattctga A
gtttcacaaag aatgtacctg ggtgccctt agcgggatat gaatagcttc ttcgaaaccc
cagcgggccag ctggtgctc ctgaaagt acgtctcat tgcacggac aaggaggcgg
ggaggggagc cagagcactc agcgtccagc agcgcggcgg gccagcctgg agcggaaagcc
tggagtggag cagcagctcc gcgggggaca gacgtcggct gggattgagc cggcagactg
cgaaaagtag ctggagccgg agcagggaca gaacctgttg ctgcagacgg gcttgggtgga
ttctggttc tgcggccgac aggcctcgc ggagaggtt catcatgaat gaaaaatggg
acacaaactc ttcagaaaac tggcatcca tctggaatgt caatgacaca aagcatcatc
tgtactcaga tattaatatt acctatgtga actactatct tcaccagcct caagtggcag
caatcttcat ttttctctac tttctgatct tctttttgtg catgatggga aatctgttg
tttgctttat tgaatgagg acaaaacata tgcacacagt cactaatctc ttcactttaa
acctggccat aagtattta ctagtggca tttctgcat gcctataaca ctgctggaca
atattatagc aggatggcca ttggaaaaca cgatgtgcaa gatcagtggga ttggtccagg
gaatatctgt cgcagcttca gtctttacgt tagttgcaat tgctgtagat aggttccagt
gtgtggtcta cctttttaa ccaagctca ctatcaagc agcgtttgtc attattatga
tcacttgggt cctagccatc accattatgt ctccatctgc agtaattgta catgtgcaag
aagaaaaata ttaccgagt agactcaact ccagaaataa aaccagtcca gtctactggt
gccgggaaaga ctggccaaat caggaaaatga ggaagatcta caccactgtg ctgtttgcca
acatctacct ggctccctc tccctcattg tcatcatgta tggaaagatt ggaatttcac
tcttcagggc tgcagttcct cacacaggca ggaagaacca ggagcagtg cagtggtgtg
ccaggaaaaa gcagaagatc attaagatgc tctgtattgt ggccctgtct tttattctct

512	160317 Neuropeptide NP_004876.1 FF 2 Receptor	160317 Neuropeptide NP_004876.1 FF 2 Receptor	LMNLSQVQGR RRALSQVQGR GPWSGSLEW SRQSGDRRR P LGLSRQTAKS SWSRSRDRTS CCRRAWWILV PAADRARRER FIMNEKWDTN SSENWHPINW VNDTKHLLYS DINITVYVNY LHQPOVAAIF IISYFLIFFL CMGNTVVVCF IVMRNKHMHT VTNLFILNLA ISDLLVGIFC MPITLLDNII AGWPFNGTMC KISGLVQGIS VAASVFTLVA IAVDRFQCVV YPFKPKLTIK TAFVIMIIW VLAITIMSPS AVMLHVQEEK YYRVRLNSQN KTSPIVWCRE DWPNQEMRKI YTTVLFPANII YGRIGISLFR AAVPHTGRKN QEQWHVWSRK KQKIIKMLLI VALLFILSWL PLWTLMLSD YADLSPNELQ IINIYYPFA HWLAFGNSSV NPILYGFENE NFRGFQFEAF QLQLCQKRAK PMEAYTLKAK SHVLINTSNQ LVQESTFQNP HGETLLYRKS AEPQQLVLM EELKETNSS EI aacagtattt tcttttcaa cacatctatt gaaagtgttg gataaatgca ggatgtaaat A atgctataaa cataaagtct gtttttaaaa aatagcattt gaaaatcatg aagggtcttt tgttttcttt tgtttgtata tatgtttatt ggtaacaggt gacactggaa gcaatgaaca ccacagtgat gcaaggcttc aacagatctg agcgggtgcc cagagacact cggatagtag agctggtatt cccagccctc tacacagtgg ttttcttgac cggcatcctg ctgaataactt tggctctgtg ggtgtttgtt cacatcccca gctcctccac ctccatcatc tacctcaaaa acacttttgt ggcgacttg ataatgacac tcatgcttcc tttcaaaaat ctctctgact cacacctggc accctggcag ctcagagctt ttgtgtgtcg ttttcttcg gtgatatttt atgagacctat gtatgtgggc atcgtgctgt tagggctcat agcctttgac agattcctca agatcatcag acccttgaga aatatttttc taaaaaaacc tgtttttgca aaaaaggctct caatcttcat ctggttcttt ttgttcttca tctccctgcc aaatatgac ttgagcaaca aggaagcaac accatcgtct gtgaaaaagt gtgcttcttt aaaggggcct ctggggctga aatggcatca aatggtataa aacatatgcc agttatttt ctggactgtt tttatcctaa tgcttgtgtt ttatgtgtgt attgcaaaa aagtatata tcttataga aagtccaaaa gtaaggacag aaaaaacaac aaaaagctgg aaggcaagt attgtgttc gtggctgtct tcttttgttg ttttgcctca ttcatatttg ccagagtcc atatactcac agtcaaaaca acaataagac tgactgtaga ctgcaaaatc aactgtttat tgctaaagaa acaactctct ttttggcagc aactaacatt tgtatggatc ccttaataa catattctta tgaataaat tcacagaaaa gctaccatgt atgcaaggga gaaagaccac agcatcaagc caagaaaaatc atagcagtca gacagacaac ataaccttag gctgacaact gtacataggg ttaacttcta	Homo sapiens
513	160324 G Protein-Coupled Receptor GPR86/GPR94/ P2Y13	160324 G Protein-Coupled Receptor GPR86/GPR94/ P2Y13		Homo sapiens

514	160324	G. Protein- Coupled Receptor GPR86/GPR94/ P2Y13	NP_076403.1	<p> tttattgatg agacttcogt agataaatgt gaaatacaat ttaaccaaga aaaaagatt ggaacaaatg ctctcttaca ttttattatc ctggtgtaca gaaaagatta tataaaattt aaatccacat agatctattc ataagctgaa tgaaccatta ctaagagaat gaacaggat acaaatggcc actagaggtc attatttctt tctttctttt tttttttttt aatttcaaga gcatttcact ttaacatttt ggaaaagact aaggagaac gtatatccct acaaacctcc cctccaaaac cctctcaca ttcttttcca caattcacat aacactactg cttttgtgcc ccttaaatgt agatatgtgc tgaagaataa aaaaaagcc caactcttga agtccattgc tgaaaactgc agccaggggt tgaagggtat gcagacttga aggtctgtag gaactgaagt gggtcagcaa gaccttgaa atcctgggta aggattttc tcttacaat tacaacagc ctcttcaca ttacaataat ataccatagg aggcacaagc accattatta agccactttg cttacacctt aagtgtgtac aattcaagt tgagaaatgct gtgttaacta tcttttgaa ttctccttct gtccagcaaa tactctaagt atggttaaac atggcaccta ctcagcaatg ccttccttga ccacaaaccc tatccccctg cccacccctc ctcattaaaa acaataactt ctactgtttg ggtgtgtgat aggtttctca atgcagatct cctttttcta gttagctata ttcttgactg catccgctaa aaatgttaaa gcttcttgag agacagacat gccagatttt cttggtatct cccataatc gacctacagt ccatgggtcta cagatgtttt aaatagaatt gctattctcg atacatacaa agacgtaatt gctgacccac aatcagtaac atccatattg ggagattttt caaggatgg tgacctgtct tactttatt tactttggtg tttttcttg catccttctg tgattcaaaa agtaaaaatg tggctttctg aatgatgga taagagtcta catcttctag aaaaaataca taaaggagta gttaaagctct gtaaatgtgc cagagctcc aacacgacca tcgtaggggt aagcccacgt ttcttctcat ggcctcaaa ggcctagaac ttgcttaact tctgggctt acctcctagc tacttataca tctcttgaac ttataactct tgtataaatt tctaactttc agaaaatgcc atactctgt ttggcaccac acatgtatat ttccccctgg tacacttga agactcttat ccatctgtga aacctatgt tgtcatcact tggtcacatga aatattacct ggccaatc cccacatcac ctcaaaaccca atcacccct cctctgtatg ctgtcacacc tatattatta aacttatcac attgcatgt aattacttcc tgacctttgt atctactctt ttagtaactg atgtatatat ctgaaaggag agattgttcc attgtcaat caataaatgt ttgataaaat aaagccc </p>	Homo sapiens
515	160329	Proteinase- Activated Receptor 4	NM_003950	<p> LKNTLVADLI MTLMLPFKIL SDSHLAPWQL RAFVCRFSSV IFYETMVG I VLLGLIAFDR FLKIIIRPLRN IFLKKPVFAK TVSIFIWFFL FFISLPNMIL SNKEATPSSV KKCASLKGPL GLKWHQMVNN ICQIFWTVF ILMVIFYVVI AKKYDSYRK SKSKDRKNK KLEGKVFVVV AVFFVCFAFF HFARVPYTHS QTNKTDCLR QNQLFAKET TLFLAATNIC MDPLIYIFLC KKFTKXLPKM QGRKTASSQ ENHSSQTDNI TLG </p>	Homo sapiens

cctctatggg ctggttctctgg tgggtgggggt gccggccaat gggctggcgc tgtgggtgct
ggccacgcag gcacctgggc tgccctccac catgctgtg atgaacctcg cgactgtctga
cctcctgctg gccctggcgc tgcccccgcg gatgcctac cactggcgtg gccagcgtg
gcccttcggg gaggcgcct gcgcctggc cagcgccga ctctatggtc acatgtatgg
ctcagtgtg ctgctggccg cgtcagcct ggatcgtac ctggccctgg tgcacccgct
gcgggccgc gccctgcgtg gccggcgcct ggcccttggc ctctgcatgg ctgcttggct
catggcgcc gccctggcac tgcccttgac actgcagcgg cagaccttcc ggctggcgcg
ctccgatcgc gtgctctgcc atgacgcgt gcccttgac gcacaggcct ccactggca
accggccttc acctgctgg cgtgttggg ctgttctcg ccttgctgg ccactgtct
gtgtacggg gccacctgc acacgctgc gccagcggc cggcgctacg gccacgcgt
gaggctgacc gcagtgtgc tggcctcgc cgtggccttc ttcgtgccc gccacctgct
gtgctgtg cattactcg accgagccc cagcgcctgg ggcaacctct atggtgccta
cgtgccagc ctggcgctga gcacctcaa cagctgcgtg gatccctca tctactacta
cgtgtcggcc gatttcaggg acaaggtgc ggcaaggctc tccaacggt cgcggggga
caccgtggcc tccaaggcct ctgcggaagg gggcagcgg gcatgggca ccactcctc
ttgtctcag tgacacaa tggggaagg tgtactgggt cgaacagggt ccttcccc
acttcagtc ctctctgga ctcagaatg tgacctatt tggaaatagg gttgttaca
ctgtcactag cggaggctac ttggagaag ggtggcctt acatccagt tgggtggtg
cctcataaga taaggagag ccaggcctgg tggctcagc ctgtaatccc agcactttaa
gaggccaagg cggatggatc acttgagccc aggagtcaa cccagcctg agcaacatg
taaaaccca tctctacca aaatacaaaa attagctggg ctctggctgg ggcgctgta
atccagcta ctcaggagac tgaggcagaa ggatcgcttg aacctgggag gcagagggtg
cagtggccg agattgcgc actggactcc agcctgcgtg acagagagcc tgtctctaaa
ttaattaatt aattaattt attcaattt aaaaagcga aagtgacgg ccagggtcag
tggctcacgc ctataatctc agcactctgg gaggccaaga tggaggattg cttgaagcca
ggagtttggg accagcctgg gcaacatagg gggatccat ctctacacac aaaaaattt
ttaatgaac caggcattgt ggcagcgc tatagtcca gccactcaag aggcacaggc
ggagagatca cttgagcctg ggaggttgtg gtgcagtga gctatgattg taccactgca
ctccagcctg gccaacagag caagacctg tctaaaaat aaacaaacta aaattaaaa
aagaagacga gatatagtgg gtgtgtggc tcacctgc aatcccagca ctttggaaagg
ccgaggtggg cagatcatct gaggccagga gtccaagacc agcctggcta acatggtgaa
atcctatctc taccaaaaat acaaaaaatta gccaggcgtg tgggtgggca cctgtactgg
ggaggtgcc accagctac tggggaggct gagtccagg aatcgcttga acctgggagg
cggaggttgc ggtcagctga gatgtgcca ctgcactcca gccctggcga aagagcgact
ctgtctccaa aaaaaagaga agaggagagg acacagagac acacagagaa gaaagccatg
tggcggcaga gccagagatg ggagtgtgc ggacggcac aaactaagg atgccacgat
gccaagcaca gccaacagcc accagcagcc aggagacagg cctgggacgg gctctccctc
acagcctcca gagggaacca gccctggcac cacttgacc cttggacttct ggcctgcaga
actgtgagac aataaactct cattgttta agtgcctgg catgtggcac ttgtcaggg
cagccaggga atctgaaaca gatatcaact ctgctctctg ggccctgcca gcactctgg
ctcggcttctc tgggctggat gcagcccacg acgactggt gctctgagatg ggcctggagc

516	160329	Proteinase- Activated Receptor 4	NP_003941.1	tggggctggg gctgcatcc ctggagactc actgcaagtt cctgccagg aggtgaggg caccatcc tcagtgcaca atgctgtggc ccaaccaggc ccagagcctg gttggccatt ctcatgcca ccagcttctg gctttgggat gtctcttgag caaccagaat agcaccacca actctgctc ccaaaacca tcaatagcac ggctcagcct cctgctatcc cctgactgct ggggaccctc gccttcctc ctctcacctg caggctgac ttcttttca ctttctgtca atgtcaccag ggataaggtg ggacaatggg ggggtgggggt ggacagtgtg tgctgggggg ttcgggtgct gcagacctgg aactcccttc tgccaggatg ttggcagccg gttgtaagcc ttgcacggga cagaccacac ccacgcaac ctatccctt cagcactaac cacatccact ctcaaccccg tccctctgc actgaccaca ccaacccgt tcggccccc ccccgcaact gaacactccc gcctcaaac ccgacacctc cgcactacc tccccctgc cgtcgaccc cgccctacc aactgacca ccctcaacc attgcacca tccccacca cagtgaccac accctcactg gctcgccct gccccagta tactgacct tccccagcca cttccctcc gacttacca ctccccagc cagccctc cccgctgacc gctcctcag cccgcctcc ccgtacagg cagagcgccc gccacctct atgtcgctt ctctgactt tacgttgcc ctctctctc caagccacca gggagacct ccttggcgtc cgagggtggg agtcgggggtg tggcaggccg cgggtggggg cggcagtggc tccgcgact caccgggcc cgggcaggg gcgcgctcca ctctgttga cgcgggtccg gcgcacagt cccggcgag tgggctgtgc gtgctgactg ttagaagcg agtggcctc aaggtacag gacgaggtg cggggtgacc aagtgcagg cgcaggggtc agggaccggg cggggccgg ggtcggggc cgcgggcta cgggttctg agtagctga acggagact ggcagcgcc acgtcctgc caccacgcac tcccgagag cagggaaccg cagcagctc agccacccg tggggtctg tgggcagcg gcgggcgag gctcgaccg gccagaggg cccggggcg tgagctcagg ccagaaactg gctgattca gggataccca ggacgcgtga aacacagaag aaactgtatc ccattttctt ttttctttt actttcttt tttttttt ttctgagac agagtctgc gctgttgccc aggctggagt gcagtggcgt gatctggct cactgcaag tcggcctcct gggttcaaat gattctctg cctcagctc ccaagtagct gggataacag gcgccacca cgcacacctg ctaattttt gtatttttga tcaagacgga gtttcacct gttggccagg ctggtctcca actcctgcc tcaagtgtc cgcctcggt ccattttta ttcttgggt ccttccatcc cactgggaaa acgtctcagg tggcctctga aacaccactc ctttttgtgt gtgtgcacg atggctgagc atgtgtgggt ggagtcagc acattcacga tactgtgcaa tcatcacctc tgtctagta caggacgggt tctttctcc ccaagaaaac cccatcgcca tcagcactca ctccccactc cccagcccc tggcaaccac aaacttttcc aactctacgg atttgcctgt tctgggcatt tcatgtcaat ggaatcatgt actctgtgaa aaaaaaaaa aaaaaaaa aaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaa	Homo sapiens
			MWGRLLWFL VLFSLSGGT QTFSVYDESG STGGDDSTP SILPARGYP QVCANDSDT P LELPDSSRAL LLGWVTRLV PLYGLVLW GLPANGLAW VLATQAPRLP STMLLMNLAT ADLLALALP PRIAYHLRGQ RWPFGAAGR LATAALYGHM YGSVLLAAV SLDRYLALVH PLRARALRGR RLALGLCMAA WLMAAALALP LTLQRTFRL ARSDRVLCND ALPLDAQASH WQPAFTCLAL LGCFLPLIAM LLCYGATLHT LAASGRRYGH ALRLTAVVLA SAVAFFVPSN LLLLLHSDP SPSAWGNLYG AYVPSLALST LNSCVDPFIY YVSAEPRDK VRAGLFQFRSP GDTVASKASA EGGSRGMGTH SLLIQ		

cggcagcagg gtcctgcctct gtccacacagg ctggagtgca gtgggtgtgat cttggctcat A
 cgtaacctcc acctcccggtg ttcaagtgtat tctcatgctt cagcctcccg agtagctggg
 attacagggtg gtgactttcca agagtacttc cgtcggagga aaatgactcc ccagtcgctg
 ctgcagacga cactgttctct gctgagttctg ctcttctctg tccaagggtgc ccacggcagg
 ggccacacagg aagactttctg cttctgcagc cagcggaaacc agacacacag gacgagcctc
 cactacaac ccacaccaga cctgcgcctc tccatcgaga actccgaaga ggcctccaca
 tccatgccc ctttccctgc agccacctt gcttccgat ccttccctga cccaggggg
 ctctaccact tctgctctta ctggaaccga catgtcggga gattacatct tctctatggc
 aagcgtgact tcttgcctgag tgacaaagcc tetagctctc tctgttcca gacccaggag
 gagagcctgg ctccaggggccc cccgctgtta gccactttct tcacctctg gtggagcctt
 cagaacatca gcctgcccag tgcgcgcagc ttacaccttct ccttccacag tcttccccac
 acggccgctc acaatgcctc ggtggacatg tgcgagctca aaaggagcct ccagctgctc
 agccagtctc tgaagcatcc ccgaaggcc tcaaggaggc cctcggctgc cccgcccagc
 cagcagttgc agagccttga gtcaaaactg acctctgtga gattcatggg ggacatgggtg
 tctctcgagg aggaccggat caacgccacg gtatggaagc tccagcccac agccggcctc
 caggacctgc acatccactc ccggcaggag gaggagcaga gcgagatcat ggagtactcg
 gtgctgctgc ctccgaacact ctccagagg acgaaaggcc ggagcgggga ggtcgagaag
 agactcctcc tgggtgactt cagcagccaa gccctgttcc agacaagaa ttccagccaa
 gtctctgggtg agaagtctt ggggattgtg gtacagaaca ccaaagtgc caactcacg
 gagcccggtg tgcctacttt ccagcaccag ctacagccga agaattgtgac tctgcaatgt
 gtgttctggg ttgaagaccc cacattgagc agccccgggc attgagagcag tcttgggtgtg
 gagaccgtca ggagagaac ccaaacatcc tgcttctgca accacttgac ctactttgca
 gtgctgatgg tctctcgggt ggaggtggac gccgtgcaca agcactacct gagctcctc
 tctacagtgg gctgtgtcgt ccttgccctg gccgtgcttg taccattgc cgcctacctc
 tgcctccagg tgcctcctgc gtgcaggagg aaacctcggg actacacct caaggtgcac
 atgaacctgc tgctggccgt cttctgtctg gacacgagct tctgtctcag cagaccgggtg
 gccctgacag gctctgaggc tggctgccga gccagtgcga tcttctctga cttctccctg
 ctccacctgc ttctctggat gggcctcag ggtacaacc tctaccgact cgtgtgtggag
 gtctttggca cctatgtccc tggctacctc ctcaagctga gcgceatggg ctggggcttc
 cccatcttcc tggtagcgtt ggtggccctg gtggatgtgg acaactatgg cccatcatc
 ttggctgtgc ataggactcc agaggcgctc atctacctt ccatgtgctg gatccgggac
 tccctggtea gctacatcac caacctgggc ctcttcagcc tgggtgttct gttcaacatg
 gccatgctag ccacctggt ggtgcagatc ctgcggctgc gcccacac ccaaaagtgg
 tcaatgtgc tgacactgct gggcctcagc ctggctcctg gcctgcctg ggcttgatc
 ttcttctcct ttgttcttgg caacttccag cttgtcgtcc tctacctttt cagcatcatc
 acctccttcc aaggcttctc catcttcatc tggtagctgt ccatcggtct gcaggccccg
 ggtggcccc cccctctgaa gagcaactca gactgcaca ggtccccat cagctcggg
 agcacctcgt ccagccgcat ctaggcctcc agcccacctg cccatgtgat gaagcagaga
 tgcggcctcg tcgcacactg cctgtggccc ccgagccagg cccagccccca ggcagtcag
 ccgcagactt tggaaagccc aacgacctg gagagatggg ccgttgccat ggtggacgga
 ctccccgggc tggggctttt gaattggcct tggggactac tcggctctca ctacgtccc

518	160330 G Protein- Coupled- Receptor TM7XN1/GPR56	NP_005673.1	acggggactca gaagtgcgcc gccatgctgc cttagggtaact gtccccacat ctgtcccaac ccagctggag gcctggctct tccttacaac ccctgggccc agcctcattg ctgggggcca ggccttgga cttgagggtc tggcacatcc ttaatacctg gccctgcct gggacagaaa tgtgctcca gttgctctgt ctctgtggt caccctgagg gcactctgca tcctctgtca ttttaacctc aggtggcacc caggcgcaat gggggccagg gcagacctc agggccagag ccctggcgga ggagaggccc ttgtccagga gcacagcagc agctcgcta cctctgagcc cg	Homo sapiens
519	160387 Glucagon- Like Peptide 2 Receptor	NM_004246	MPQSLQTT LFLSLFLV QGAHGRGHE DFRFCQRNQ THRSLHYKP TPDLRISIEN P SEALTVHAP FPAAHPASRS FPDPRGLYHF CLYWNRHAGR LHLLYGRKDF LLSDKASSLL CFQHQESLA QGPPLATSV TSWSPQNIS LPSAASFTFS FHSPHTAAH NASVDMCELK RDLQLLSQFL KHPQKASRRP SAAPASQQLQ SLESKLTSVR FMGDMVSFEE DRINATVWKL QPTAGLQDLH IHSRQEEEQS EIMEYSVLLP RTLFQRTKGR SGEAEKRLLL VDFSSQALFQ DNSSQVLGE KVLGIVVQNT KVANLTPVV LTFQHQLQPK NVTLCQVFW EEDTLSSPGH WSSAGCETVR RETQTSFCFN HLTFFAVLMV SSVEVDVHK HYLSSLVVG CVVSALACLIV TIAAYLCRV PLPCRKRPRD YTIKVHMLL LAVFLLDTSF LLSEPVALTG SEAGCRASAI FLHFSLLTCL SWMGLEGYNL YRLVVEVFGT YVPGYLLKLS AMGWGFPFL VTLVALVDVD NYGPIILAVH RTPEGVIYPS MCWIRDSLVS YITNLGFSL VLFNMMMLA TMVQILRLR PHTQKWSHVL TLIGLSLVIG LPWALIFFSF ASGTFQLVVL YLFSIITSFQ GLIFFIWYWS MRLQARGGFS PLKNSNDCAR LPISSGSTSS SRI atgaagctgg gatcgagcag ggcaggccct ggagagagaa gcgcggggact cctgcctggc A gtccaagagc tgcocatgg cctccctggc ccctggggga ccagtcctct ctccttccac aggaaagtgt ctctctggc ccctgggagg' ccttctca cctgtgctct gctgggttcc atcaagcaag ttacaggatc cctccttgag gaaacgactc ggaagtggc tcagtacaaa caggcatgtc tgagagactt actcaaggaa cctctggca tatttgtaa cgggacattt gatcattacg tgtgttgcc tcattctct cctggaaatg tctctgtacc ctgcccttca tggaactggc agacgataga gaacgccacg gatattggc aggatgactc cgaatgctcc gagaaccaca gcttcaagca aaacgtggac cgttatgctt tgcgtgcaac cttgcagctg atgtacaccg tgggatactc ctctctctt atctccctct tccgtgctct caccctctc ttgtttcttc gaaaactcca ctgcacgcgc aactacatcc acatgaactt gtttgctct ttcatcctga gaacctggc tgtactggtg aaggagctcg tcttctaca ccttactcc aagaggcctg acaatgagaa tgggtggatg tctacactgt cagagatgac cactctctc cgctcagtc aggttctctt gcattacttt gtgggtgcca attacttat gctgctggtt gaaggcctct acctccacac gctgctggag ccacagtg tctctgagag gcgctgtggg ccagatacc tgcgttggtg tgggacctc cctgtgctat ttgtgtacc ctggggttcc gcccgtgcac acctggagaa cacagggtgc tggacaacaa atgggaataa gaaaatctgg tggatcatcc gaggacctat gatgctgtgt gtaacagtca atttctcat ctctctgaaa attctcaagc ttctcattc taagctcaaa gctcatcaaa tgtgcttcag agattataa tacagattgg caaaatcaac actggtctc attccttat tggcggttca tgatctctc ttctcttca tcaatgatga tcaagtga ggaattgcaa aacttatag acttttcaat cagttgacac tgagctcctt tcatgggttc ctggtggcct tgcagtatgg ttttgcaat	Homo sapiens

520	160387	Glucagon-Like Peptide 2 Receptor	NP_004237.1	<p> ggagaagtga aggtgagct gcgaaatac tgggtcgct tctgtctagc cgcacactca ggctgcagag cctgtgtctt ggggaaggac ttcggttcc taggaaatg tccaagaag ctctcggaag gagatggcg tgagaagctt cggaaagctc agcctcact taacagtgg cggctcctac atctagccat cggaggtctt ggggagctgg gcgccagcc caaacaggac catgcacgct ggcgccggg cagcagcctg tccgagtgca gtgaggggga tgtcaccatg gccaacacca tggagagat tctggaagag agtgagatct ag MKLGSSRAGP GRGSAGLPG VHELPMGIPA PWGTSPLSFH RKCSLWAPGR PFLTLLVLS P IKQVTGSLLE ETTRKWAQYK QACLRLDLKE PSGFICNGTF DQYVCPHSS PGNVSVPCPS YLPWSEESS GRAYRHCLAQ GTWQTENAT DIWQDDSECS ENHSFKQND RYALLSTLQL MYTVGYSFSL ISFLALTLL LFLRLKLCR NYIHMNLFAS FILRTLAVLV KDVVFYNSYS KRPDNENGWM SYLSEMSSTSC RSVQVLLHYF VGANYLLLV EGLYLHLL E PTVLPERRLW PRYLLLGWAF PVLFPVWGF ARAHLENTGC WTTNGNKKIW WIIRGPMMLC VTNFFIFLK ILKLLISKLIK AHQMCFRDYK YRLAKSTLVL IPLLGVHEIL FSFTDDQVE GFALIRLFI QLTLSSEHGF LVALQYGFAN GEVKAELRKY WVRFLARHS GCRACVLGKD FRFLGKCPKK LSEGDGAELK RLKLPSSLNSG RLHLAMRGL GELGAQPQQD HARWPRGSSL SECSEGDVTM ANTMEEILIEE SEI </p>	Homo sapiens
521	160388	Latrophilin-1	NM_014921	<p> tttttttttt ttttttctt aatttttggc cggcgggcggc gctggggccag gggaaggaaag A ggacacggag cgcgcctctg tcccgccacc tctacacgc ttcgccccag ccccggtcc gggagatgtg cggcgcgggg gggcggtgtt cgcgcggcgg caggagagac acgtgggccc gacccagag aggcgctgga caggctgggtg tgcagggccg agtgccctgc cagtgatgt ggggcaagc ccccgccaca ggcactgag agctcggac acgcacccgg ctgccacat ggcccgcta ggcgagtg cctggaatct gtgtgtcacc ggcgtcctgg tcacctggc caccacggc ctgagccggg cggggtccc gtgcggctgc agcgagcgg agctggcgtg tgaaggctac cccatcgagc tgcggtgccc cggcagcgac gtcatcatgg tggagaatgc caactacggg cgcacggagc acaagatttg cgtgctgac cctttccaga tggagaatgt gtgctggtg gtgcgagct ccttcaagat catgtcacag aggtgtaca accgcacca cctggaggtg cagtacgact gtgtcccta caaagtggag cagaaagtct tcgtgtgccc agggaccctg cagaaggtgc tggagccac ctgcacacac gactcagagc accagtctgg cgcattgtgc aaggaccgc tgcaggcggg tgaccgcac tactgtatgc cctggatccc ctaccgcag gacacactga ctgagtatgc ctctggggag gactacgtgg ccgcccacca caccaccac taccgcctgc ccaaccggt ggatggcaca ggctttgtgg tctacgatgg tgcgtcttc tacaacaagg agcgacgcg caacatctc aagtatgacc tacggagcgcg catcaagagc ggggagacgg tcatcaatac cgcacaactac catgacacct cgcctaccg ctggggcgga aagaccgaca ttgacctggc ggtggagcag aacgggtgt gggtcata cggccactgag ggcaacaacg ggcggctggt ggtgagccag ctgaacccct acacatgcy ctttgagggc acgtgggaga cgggttacga caagcgtcg gcatccaacg cttcatggt gtgtgggggc ctgtacgtcc tgcgtccgt gtactggat gatgacagc agcggtctg caaccgcgtg gactatgect tcaaaccaa tgcacaccg gaggagcctg tcagcctcac ctccccaac cctaccagt tcatctctc cgttgactac aacctcgcg acaaccagct gtactgtcg aacaactatt tctgtgtgcg ctacagcctg gacttcggc cgcgcgaccc </p>	Homo sapiens

cagtgtgtgc ccagccactt cccacccct cagcacgacc accacagcca ggcacagcc cctcaccagc acagctctgc ccgacgccac caccocgtc cgcggggcac cectcaccac gcaccagtg ggtgccatca accagctggg acctgatctg cctccagcca cagccccagt cccagcacc cggcgggccc cagccccgaa tctacacgtg tccccagc tcttctgcga gccccagag gtacggcggg tccagtggcc ggccaccag cagggcacgc tgggtggagag gcctgcccc aaggggactc gaggaattgc ctcttccag tgtctaccag ccttggggct ctggaacccc cggggccctg acctcagcaa ctgcacctcc cctgggtca accaggtggc ccagaagatc aagagtgggg agaacgggc caacatggcc agcagctgg cccgacacac ccggggctcc atctacgcgg gggacgtctc ctctctgtg aagctgatgg agcagctgct ggacatcctg gatgccagc tgcaggccct gcggccatc gagcgagtg cagccggcaa gaactaac aagatgcaca agcagagag aactgttaag gattatatca agccctgtgt ggagacagtg gacaatctgc tccggccaga agctctggag tccctggaag acatgaatgc caggagcag gtgcacacgg ccaccatgct cctgcacgtc ctggaggag ggccttct cctggccgac aatgtcaggg agcctgccc cttcctggct gccaaggaga acgtgttctt ggaggtcaca gtcttgaaca cagagggcca ggtgcaggag ctggtgttcc cccaggagga glaccggaga aagaactcca tccagctgtc tgccaaacc atcaagcaga acagccgcaa tggggtgtgtc aaagtgtct tcatcctcta caacaacctg ggcctcttcc tgtccacgga gaatgccaca gtgaagctgg ccggcgaaag agccctgggt ggcctgggg gcgcctctct agtggtgaaac tcacaggtca tgcagcactc catcaacaag gactccagcc gcgtcttct catggaccct gtcatcttca ccgtggccca cctggaggac aagaaccact tcaatgtctaa ctgctccttc tggaaactact cggagcgttc catgctgggc tattgtgtga cccaaggctg ccgcctggtg gagtccaaaca agaccatac cagctgtgcc tgcagccacc tcaccaactt cgctgtgtct atggctcacc gtgagatcta ccaggggcgc atcaacgagc tgcgtgtct ccgtgtgtc tgggtgggca ttgtgatctc cctgtctgc ttggccatct gcattctccac ctctgtcttc ctgcgggggc tgcagaccga ccgcacacc atccacaaga acctgtgat caacctcttc ctggctgagc tgccttctct ggtcgggac gacaagactc agtatagat tgcctgcccc atcttcgccc gctgtctgca ctattcttc ctggctgctt tctcctggct gtgcctggag ggcgtgcacc tctacctgct actagtggag gtgtttgaga gcgagtattc ccgcaccaag tactactacc tgggtggcta ctgcttccc gccctggtg tgggcatacgc ggtgocatt gactaccgca gctacggcac cgagaaggcc tgcctggctcc gagtggacaa ttactcatc tggagtcca tggggccagt ctctctgtt atcgtgtca acctgtgtt cctcatggtg acctgcaca agatgatccg aagctcatct gtgctcaagc ccgactccag ccgcctggac aacattaaat cctgggcgct gggggccatc gcgctgctgt tctgtctggg cctcacctgg gctttcgcc tctcttcat caacaaggag tgggtgtgta tggcctatct cttcaccacc ttcaacgctt tccagggggt ctctatcttc gtcttctact gcgcctaca gaagaagggt cacaaggagt acagcaagt cctgcgtcac tctactgct gcacccgtc ccaacccggg ggcactcacg gatccctcaa gactcagcc atcgaaagca acaccgcta ctacacaggg acccagacc gaattcggag gatgtggaat gacactgtga ggaacagac ggagtctctc ttcatggcgg gtgacatcaa cagaccccc accctgaacc gaggtaccat ggggaaccac ctgctgacca acccgtgct gcagccccgt gggggacca gtccctcaa caccctcat gccgagtca tgggcttcaa tccctctctg cccctgtct tcaactcccc

522	160388	Latrophilin- NP_055736.1	1	<p> aggagactac cggaaccca agcaccctt gggaggccg gaagcctgtg gcatggacac cctgcccctg aacggcaact tcaataacag ttactccttg cgaagtggg atttccctcc cggggatggg ggcctgagc cgcccggag cggaaccta gccgatggg cggcctttga gaagatgac atctagagc tggtagaca caacctggg gggagcaga gcgcggccaa ggccctcca cgcctgagc cccctgtgc acctgtgcca ggggcccggg gcgaggaaga ggcggggcgg cccgggggtg ctgaccggg cgagattgaa ctctctata agcccttggg ggagcctctg ctgctgccc gggcccagtc ggtgctgtac cagagcgatc tggacgagtc ggagagctgc acggccgag acggcgccac cagccggccc ctctcctccc ctctggccc ggactccctc tatgccagcg gggccaacct ggggactca cctcctacc cggacagcag ccctgaggg ccagtgagg cctgcccc acccccctt gacccccg gccccccga aatctactac acctcgccc cgcagacct ggtggcccgc aatccccgc aggctacta ccaggtggg cgtcctagcc acgagggcta cctggcagcc ccagccttg aggggccagg gcccgatgg gacgggcaga tgcagctggt caccagtctc tgaggccacc tcatggacca gggctgtg gcccaggcca gggagggaac cctgggcagg gctctgtgg gagagggaga cagatggagg cagtggctgg tggccactc tctccagtg cccctcagcc atgggcccta cagtcctctc agggactct aacctgggg cctgaggtgc cagggttcac agacagggtt tcccaccagc cacacgcacc agctctattt gggggaagtg tagtgaggag gagccagag gacccaggg gagtggagg ggaagaactg gaagggtgca gccactctcc agactctccc ctctccacc ctctacct gtgaaggga atgagggtt tagttctctg ggcaggagg ggagcttct gaggttgcca aaggccccc ctggatgga cctgttagct gctcctctcc gcagccagaa atgctgccc cgcaccccag agggagcagt gagcaggac agatggacag gtctctctc cgtgtaatt cctctctccc tggagactgg gaaaaggcc caggcaggg ggactggcg gtggtggctg gtggtttaa ggtgaactt tctctgaag tcttctccc ttgctcttg tccctgccc gaagcaaac ctgccccctc tgcctccag tgcacccaat gacccctcc cttggggcga cctctgatga agcacaact cccgcaggc cccagccca cagggtggc catatttgg cagttccccc tctgtgggc tcggtatctt gggagcaga ttttgggtc ggatctccc gggagtggg tcttggtctt ggatcttccc ctagggggccc ctcttactcc ttctctctc ctctctctc cctctcttc cccattgctg taaatattc aacgaaatgg aaaaa aaaaagac </p>	Homo sapiens
		MARLAALWN LCVTAIVLTS ATQGLSRAGL PFGLMRRELA CEGYPIELRC PGSDVIMVEN P		<p> ANYGRTDDKI CDADPFQMEN VQYLPAFAK IMSQRCNNRT QCVVAGSDA FPDPCPGTYK YLEVQYDCVP YKVEQVFVC PGTLOKVLPE TSTHESEHQ GAWCKDLQA GDRIYMPWI PYRTDTLLEY ASWEDYVAAR HTTYRLPNR VDGTFVVVD GAVFYNKERT RNIVKYDLRT RIKSETVIN TANYHDTSPY RWGKTIDL AVDENGWLVI YATEGNGRL VVQLNPYTL RFEGTWETGY DKRSASNAFM VCGVLYVLS VYVDDDESA GNRVDYAFT NANREPVSL TFPNPYQFIS SVDYNPRDNQ LYVWNNYFV RYSLFEGPDP PSAGPATSP PP LSTTTARPT PLTSTASPA TPLRLRAPLT THPVGAINQL GPDLPATAP VPSTRPPAP NLHVSPELFC EPREVRVQW PATQOGLMVE RCPKGTGRI ASFQCLPALG LWNPRGDL NCTSPWNQV AQIKSGENA ANIASELARH TRGSYAGDV SSSVKLMEQL LDILDAQLQA LRPIRESAG KNYKNMKHRE RTCKDYIKAV VETVDNLLRP EALESWKDMN ATEQVHTATM LLDVLEEGAF LLADNVREPA RFLAAKENVV LEVTVLNTG QVQELVFPQE EYPRKNSIQL SAKTIKQNSR </p>	

NGVVKWFIL YNNIGLEFST ENATVKIAGE AGPGGPGGAS LVVNSQVIAA SINKESSRVF
 LMDEVIFTVA HLEDKNHFNA NCSFWMYSE SMLGYWSTQG CRLVESNKTTH TTCACSHLNT
 FAVLMAHREI YQGRINELL SVITWVGIV SILVCLAICIS TFCFLRGLQT DRNTHKNLC
 INFLAELLF LVGIDTKQYE IACPIFAGLL HYFFLAAFSW LCLEGVHLYL LLVEVFESEY
 SRTKYYLGG YCFPALVVG I AAIDYRSYG TEKACWLRVD NYFIWSFIGP VSEFIVVNLV
 FLMVTLHKMI RSSSVLKPDS SRLDNIKSWA LGAIALLFLL GLTWAFGLLF INKESVWMAV
 LFTTFNAFOG VFIFVEHCAL QKVHKEYSK CLRHSYCCIR SPGGTHGSL KTSAMRSNTR
 YVTGTQSRIR RMNDTVRKQ TESSFMAGDI NSTPTLNRT MGNHLLTNPV LQPRGGTSPY
 NTLIAESVGF NPSSPPVENS PGSYREP KHP LGGREACGMD TPLNGNFNN SYSLSRSGDFP
 PGDGGPEPPR GRNLADAAAF EXMIISELVH NNLRGSSAA KGPPPPPEPPV PPVPGGGGEE
 EAGGPGGADR AEIELLYKAL EEPILLPRAQ SVLYQSDLE SESCDAEDGA TSRPLSSPPG
 RDSLYASGAN LRDSPPSPDS SPEGPSEALP PPPAPPPEPP EIYTSRPPA LVARNPLQGY
 YQVRRPSHEG YLAAPGLEP GPDGDGMQL VTSI
 taggagccgg agggagagcc gccgcgcgcg ttgacccggc cgccggccgg gagctgggag A
 agatgcggag ccgggccacc gccgtccccc toccaacgcc gccgcgcgcg ctgctgctgc
 tgttgctgct gctgtgccc cgccactat tgggagacca agtggggccc tgcgttctt
 tgggtccag gggacgagc tcttcgggg cctggcccc catgggctgg cctgtccat
 cctcagcgc gaacctctg cctacacca gccgctcag gtagcgggc actgagctga
 ctggccact ggtacccac cagatggcc tgagggttg gtgccagaa tccgagggcc
 atattccct accacagct cctgaaggct gccctggag ctgctgcctc ctgggcatg
 gaggccact tccccacag ggcaagctca cactgccga ggagcaccg tgcctaaag
 ctccacggct cagatgccag tctgcaagc tggcacagg cccgggctc agggcagggg
 aaaggccacc agaagagtc ctgggtggc gtcgaaaaa gaatgtaaat acagccccc
 agttccagcc cccagctac cagccgagc agggtaggc aggtcgact gagtacacca
 ttgcatccct cttgatagc cgtcccaac agttctctc cctggaccca gtcactggtg
 cagtaaacac agccaggag ctggatcgt agaccaagag caccacgtc ttcagggtca
 cggcgccagga ccacggcatg ccccgacga gtgccctggc tacactacc atcttggtta
 ctgacaccaa tgaccatgac cctgtgttcg agcagcagga gtacaaagg agcctcaggg
 agaactgga ggttggtctat gaggtgctca ctgtcagggc caggatggt gatgcccc
 ccaatgccc tttctgtac cgtctgttcg aggggtctg gaacccgtg cctgtggat tctgaagtct
 ttgagatcga cctcgtctt ggggtgatcc gaacccgtg cctgtggat cgggaagagg
 tggaaacctt ccagctgac gttagagcaa gtgacaggg tggggaccg ggtcctcgga
 gtaccacag cgtgttttc cttctgttg aggatgacaa tgataatgcc cccagtta
 gtgagaagc ctatgtggtc caggtgaggg aggatgtgac tccagggcc ccagtactcc
 gagtcaagc ctggatcga gacaagggga gcaatgccgt ggtgcactat agcatcatga
 gtgcaatgc tggggacag tttatctgg atgccagac tggagctctg gatgtgtga
 gccctcttga ctatgagacg accaagagt acacctacg ggtgcgagca caggatggtg
 gccgtcccc actctcta gctctggct tccctgagc agaggtcctg gatatacag
 acaatgccc catctctgc agcaccctt tccaggctac tgcctggag agcgtccct
 taggctacct ggtctccat gtccaggcta tgcagctga tgcgtgtgac aatgcccgcc

Homo sapiens

523 160390 Cadherin EGF NM_001408
 LAG Seven-
 Pass G-Type
 Receptor 2
 (CELSR2)

tggaataccg ccttgctggg gtgggacatg acttccctt caccataac aatggcacag
gctggatctc tgtgctgct gaactggacc gggaggaagt tgattttac agcttgggg
tagaagctcg agaccatggc actocagcac tcactgcctc ggccagtgtc agcgtgactg
tcctggatgt caacgacaac aatccaacct ttaccaaac agagtacaca gtgcggctca
atgaggatgc agctgtgggc accagcgtgg tgacggtgtc agctgtggac cgtgatgtc
atagtgtcat cactaccag atcaccagt gcaatactcg aaacgcttc tccatcacca
gccaaagtgg tgggtggctg gtatccctt cctgccact ggactacaaa cttgagcggc
agtatgtgtt ggctgttacc gccctcgatg gcactcggga ggacacggca gatttgttg
tgaatgtcac cgacggcaac accatcgtc ctgtctttca gactccccc tatacagtga
atgttaatga ggacggcgg gcaggcacca cgggtgtgct gatcagccc acggtgagg
acacaggtga gaatgccgc atcacctact tcatggagga cagcatcccc cagtccgca
tcgatgcaga cacgggggct gtccaccacc aggtgagct ggactacgaa gaccaagtgt
cttacacct ggccattact gtcggggaca atggcattcc ccagaagtc gacaccact
acctggagat cctggtgaac gactggaatg acaatgcccc tcagttcctg cgagactcct
accaggggcag tgtctatgag gatgtgccac ccttcactag cgtcctgcag atctcagcca
ctgatcgtga ttctgactt aatggcaggg tcttctacac ctccaaggga ggacgcatg
gagacggtga ctttattgtt gactccact caggcatcgt gcgaacgcta cggaggctgg
atcgagagaa cgtggcccag tatgtcttc gggcatatgc agtgacaaag gggatgcccc
cagcccgac acctaggaa ttgacagtca ctgtgttga tgtgaatgac aatccccctg
tctttgagca ggatgagttt gatgtgtttg tggaaagaaa cagcccat gggctagccg
tggccggggt cacagccact gacccgatg aaggcaccaa tgcacagatt atgtaccaga
ttgtggaggg caacatccct gaggcttcc agctggacat ctctccggg gactgacag
ccctggtaga cttagactac gaggaccggc ctgagtact cctggtcatc caggccactg
cagctcctct ggtgagccgg gctacagtc acgtccgct ccttgaccgc aatgacaaac
caccagtgt cctggcaactt gagatccttt tcaacaacta tgtaccaat cgtcaagca
gcttccctgg ggtgccatt ggccgagtac ctgcccatga cctgatatac tcagatagtc
tgacttacag ctttgagcgg ggaatgaac tcagcctggt cctgtcaat gcctccacgg
gtgagctgaa gctaagccgc gcaatggaca acaaccggcc tctggaggcc atcatgagcg
tgctggtgtc agacggcgtta cacagcgtga ccgccagtg cggctgctgt gtgaccatca
tcaccgatga gatgtcacc cacagcatca cgtcgcctt ggagacatg tcacccgagc
gcttccctgt accactgcta ggcctcttca tccaggcgggt ggccggccag ctggccacgc
cacgggacca cgtggtggtc ttcaacgtac agcgggacac gcagccccc gggggccaca
tctcaactg gagcctgtcg gtggggccagc cgccagggcc cggggggcgg ccgcccttc
tgccctctga ggaactgcag gagcctat acctcaaccg cagcctgctg acggccatct
cggcacagcg cgtgctgccc ttcgacgaca acatcgtcct gcggagccc tgcgagaact
acatgcgtcg cgtgtcgggt ctgcgcttcg actcctccgc gccttctc gcctcctct
ccgtgctctt ccggccatc caccocgtcg gagggtcgcg ctgcgcgtgc ccgcccgct
tcacgggtga ctactgcgag accgaggtgg acctctgta ctgcgggcc tgtggcccc
acgggcgtcg ccgacggcg gagggcgct acactgct ctgtcgtgat ggctacacgg
tgagacactg tgaggtgagt gctcgtctcag gccgttgcac ccgggtgtc tgaagaatg
ggggcacctg tgtcaacctg ctggtggcg ttttcaactg cgattgcca tctggagact

tcgagaagcc ctactgccag gtgaccacgc gcagcttccc cgcacctcc ttcatcaact
ttcgcggcct gcgcagcgt ttccacttca cctggccct ctctttgccc acaaggagc
ggacgggtt gctgtgtac aatggcggtt tcaatgagaa gcatgacttt gtggccctcg
aggtagtcca ggagcaggtc cagctcacct tctctgcagg ggagtcaccc accacgggtg
ccccattcgt gccggaggga gtcaagtatg gccagtgcca tacgggtgac ctgaataact
acaataagcc actgttggtt cagacagggc tcccacagg cccatcagag cagaagggtg
ctgtgtgac cgtggatggc tgtgacacag gagtggcctt gcgcttcgga tctgtcctgg
gcaactactc ctgtgctgcc caggccacc aggtggcag caagaagtct ctggtactga
cggggccctt gctactaggc ggggtgctg acctgcccga gagcttccc gtccgaatgc
ggcagttcgt gggctgcatg cggaacctgc aggtggacag ccggcacata gacatggctg
acttcattgc caacaatggc acogtgcctg gctgccctgc caagaagaac gtgtgtgaca
gcaacacttg ccacaatggg ggcacttgcg tgaaccagtg ggacgcgttc agtgcgagt
gccccctggg ctttgggggc aagagctgcg cccaggaaat ggccaatcca cagcacttcc
tgggcagcag cctgggtggc tggcatggcc tctcgtgcc catctccaa cctggtacc
tcagcctcat gtccgcacg cgcagggccg acggtgctct gctgcaggcc atcaccaggg
ggcgcagcac caccacctc cagctacgag agggccact gatgctgagc gtggagggca
cagggttcca ggctcctct ctccgtctgg agccaggccg ggccaatgac ggtgactggc
accatgcaca gctggcactg ggagccagcg gggggccttg ccatgcoatt ctgtcctcg
attatgggca gcagagagca gagggcaacc tgggcccccg gctgcatggt ctgcacctga
gcaacataac agtggggcgga atacctgggc cagccggcggt tgtggccgtt gcttttcggg
gctgttttga ggggtgtcgg gtgagcgata cgccagaggg ggttaacagc ctggatccca
gccatgggga gacatcaac gtggagcaag gctgtagcct gcctgacct tgtgactcaa
accctgttcc tgctaacagc tattgcagca acgactggga cagctattcc tgcagctgtg
atccagggtta ctatggtgac aactgtacta atgtgttga cctgaacccg tgtgagcacc
agtctgtgtg taccgcgaag cccagtccc cccatggcta tacctgcgag tgtccccc
attacctgg gccatactgt gagaccagga ttgaccagcc ttgtccctgt ggtggtggg
gacatcccac atgtggccca tggcaactgt atgtcagcaa aggetttgac ccagactgca
acaagacaag cggcgagtgc cactgcaagg agaaccata ccggccccca ggcagcccc
cctgacctt gtgtgactgc taccacacag gctcctgtc cagagtctgt gacctgagg
atggccagtg tccatgcaag ccaggtgtca tcgggcgtca gtgtgaccg tgtgacaacc
ctttgttga ggtcaccac aatggctgtg aagtgaatta tgacagctgc ccacgagcga
ttgaggctgg gatctgggtg cccgtacc ccttcgggt gctcctgtct gctccctgtc
ccaaaggctc ctttgggact gctgtgcgc actgtgatga gcacaggggg tggctcccc
caaacctctt caactgcag tccatcacct tctcagaact gaagggttc gctgagcggc
tacagcggaa tgagtccagg ctgactcag ggcgtccca gcagtagcc ctgtcctgc
gcaacgccac gctgctggc cagcagagca cccagcgggg ctttgggctg tctgccac
tggccacgcg gctgctggc cagcagagca cccagcgggg ggttgggctg tctgccac
aggacgtgca cttcactgag aatctgtgc ggggtgggag cgcctcctg gacacagcca
acaagcggca ctgggagctg atccagcaga cagagggtgg caccgctgg ctgctccagc
actatgaggc ctacgccagt gccctggccc agaactgcg gcacacctac ctaagccct
tcaccatcgt cagcccaac attgtcatct ccgtagtgcg cttggacaaa gggaacttbg

ctggggccaa gctgccccgc tacgaggccc tgcgtgggga gcagcccccg gaccttgaga
caacagtcac tctgctgag tctgtcttca gagagagccc cccgtgggtc aggcccgag
gccccggaga gcccaggag ccaggaggc tggcacggcg acagcagcg caccgggagc
tgagccaggg tgaggctgtg gccagcgtca tcatctacg caccctggcc gggctactgc
ctcataacta tgacctgac aagcgagct tgagagtccc caaaccccc atcatcaaca
caccctgggt gagcatcagc gtccatgat atgaggagct tctgccccg gccctggaca
aaccctgac ggtgagttc gcctgctgg agacagagga gcggaccaag cccatctgtg
tcttctggaa ccattcaatc ctggtcagtg gcacaggtgg ctggtcgcc agagctgtg
aagtcgtctt ccgcaatgag agccacgtca gctgccagt caaccacatg acgagcttgc
ctgtgctcat ggacgtttct cggcgggaga atggggagat cctgccactg aagacactga
catacgtggc tctaggtgtc acctggctg ccttctgct caccctcttc ttctcactc
tcttgctat cctggctcc aaccaacag gcacccgacg taacctgaca gctgccctgg
gccctggctca gctggtcttc ctctgggaa tcaaccaggc tgacctccct ttgctctgca
cagtcattgc catcctgctg cacttctgt acctctgac ctttctctgg gctctgctgg
aggccttgca cctgtaccgg gcactcactg agtgcgcgga tgtcaacacc gggcccatgc
gcttctacta catgctgggc tggggcgtgc ctgcttctcat cacagggcta gccgtggcc
tggacccoga gggctacggg aacctgact tctgctgct ctccatctat gacacgtca
tctggagttt tgtggcccc gtggccttg ccgtctctgat gagtgtcttc ctgtacatcc
tggcgccccg gccctcctgt gctgcccagc ggcagggctt tgagaagaaa ggtcctgtct
cgggcctgca gccctccttc gccgtcctcc tgcgtctgag cgccacgtgg ctgctggcac
tgtctctgt caacagcgac acctcctct tccactacct cttgtctacc tgcaattgca
tccagggccc ctctatcttc ctctcctatg tgggtgttag caaggaggtc cggaagcac
tcaagcttg ctgcagccgc aagcccagcc ctgacctgc tctgaccacc aagtccacc
tgacctctc ctacaactgc cccagccct acgcagatgg gcgctgtac cagccctacg
gagactcggc cggctctctg cacagcacca gtgctctggg caagagtca cccagctaca
tccccctctt gctgaggag gagtccgcac tgaacctgg aagaccagca cctggcctgg
gggataccagg cagcctgttc ctggaaggtc aagaccagca gcctgctct accactcat
ccgacagtga cctgtcctta gaagacgacc agagtggctc ctatgcctct accactcat
cagacagtga ggaggaaaga gaggagagg aagaggaggc cgccttccct ggagagcagg
gctgggatag cctgctgggg cctggagcag agagactgcc cctgcacagt actccaaagg
atggggggcc agggcctggc aaggccccct ggccaggaga ctttgggacc acagcaaaag
agagtagtgg caacggggcc cctgaggagc ggtgctggga gaatggagat gccctgtctc
gagaggggtc cctaggcccc ctctcaggct ctctgcccga gctcacaaa ggcctcctta
agaagaagt tctgcccacc atcagcgaga agagcagcct cctgcggctc cccctggagc
aatgcacagg gtcttccccg ggtctctccg ctagttaggg cagccggggc gggccccctc
ccccccacc gccccggcag agcctccagg agcagctgaa cggggctcatg cccatcgcca
tgagcatcaa ggcaggcacg gtggatgagg actcgtcagg ctccgaattt ctcttctta
acttctctga ttaacctgg gccgtgttct ctacgcccga ggtcccttc cttccccag
ccgactcat gccctgctcc tgtctgtgct ttatctctgc cccgtcccc atcgctgccc
cgcagcagc acgaacgtc catctgagga gctggggcct tgcgggagg ggtactcacc
ccacctaaagg ccacttagtg ccaactcccc cccactcatt cccctcactg cactttggac

ccctggggcc aacatctcca agacaaagt ttccagaaaa gagaaaaaa agaatttaa
aaaggatctc cactcttcac gacttcagg gattcatttt ttatacgtc ggaattgac
tcccctttcc cttcccaag aggataggac ctcccaggat gttccacagc ctctctcag
tttcccatct gctgtgctc tgggaggaga gggactcctg ggggacctgc cctcatatc
ccatcaccaa aggaaaaga caaagccaca cgcagccagg gttccacacc cttcaggctg
caccgggca ggcctcagaa cggtagggg ccagggcaaa ggtgtgtct cgtcctgcc
gcactgctc tcccagaaac tggaaagcc ctgtccgtg aggggcaga aggactcagc
gcccctggac ccccaatgc tgcataaca catttcagg ggcctctg ccccaggc
ggggtcggc agcccagcc cctctcttt ccttgactc tggcctgag cggcagcca
ggtgttgc cagttgctga ccaaaagt cttcatttt cgtgccgc cgcgcccc
ggcaggccag tcatgtgta agttgcctt ctttgcctg atgtgggtg gggaggaga
gtaaacacag tctggctcg gctgccctga ggtgctcaa tcaagcacag gttcaagt
tgggttctg tctcactca cccacccac ccccaaat cagacaaatg ctactttgtc
taacctgctg tggcctctga gacatgttct attttaacc ccttctgga atggctctc
ttctcaag gaccaggtcc tgttctctt tctcccgac tccacccag cctcctgta
agagaggtt aatatattg ttttattat ttgcttttt cgttggatg ggttctgtc
cagtcocggg ggtctgatat ggcctcaca ggtgggtgt tcccagcag cctggcttg
ggccttgac ccttccctt tgcctcagc catcattcc cccctctcc tcccctcc
tcagtttgc cactgcttt tcatctgag caccattac tccagcatg tattccagc
ttgtcactga ctttctctt ggagcaggt gctagaaaa gagctgttg gcaggaaaga
aaggctcctg tttctcatt gtgagccag cctctgctt tctgctggt gattctccc
ctgtctctc cctcagcaa tctctgcaa ggttataaa tttaactgt tttactact
gatgactaa aaaaaatac agatgctgg atgctaact gatacaacc atcagattg
acagtttgg tttgtctga aatatgtag cgtttgttg ttgtgtttt tcatgccc
atactactga ataaactag tctgtcggg t

524 160390 Cadherin EGF NP_001399.1 MRSPATGVPL PTPPPPLLL LLLLPPLL GDQVGPCRSL GSRGRSSGA CAPMGWLCPS P
LAG Seven- SASNLWLYTS RCRDAGTELT GHLVPHHDGL RVWCPSEAH IPLPPAPEGC PWSCRLLGIG
Pass G-Type GHLSPOGKLT LPEHPCLKA PRLRCQSKL AQAPGLRAGE RSPEESLGR RKRNVNTAPQ
Receptor 2 FQPPSYQATV PENQAGTPV ASLRADPDE GEAGRLTYM DALFDSRSNQ FFSLDPVTGA
(CELSR2) VTTAEELDRE TKSTHVFRVT AQDHGMPRRS ALATILITV DTNDHDPVFE QQEYKESRE
NLEVGVEVLT VRATDGDAPP NANILYRLLE GSGGSPSEVF EIDPRSGVIR TRGPVDREEV
ESYQLTVEAS DQGRDPGPRS TTAAVFLSVE DDNDNAPQFS EKRVVQVRE DVTGPAPVLR
VTASDRDKGS NAVVHYSIMS GNARGQFYLD AQTGALDWS PLDYETKEY TLRVRAQDGG
RPPLSNVSL VTQVLDIND NAPIFVSTPF QATVLESVPL GYLVLHVQAI DADAGDNARL
EYRLAGVGH FPFINNGTG WISVAEELDR EEVDFISFGV EARDHGTAL TASASVSTV
LDVNDNNPTF TOPEYTVRLN EDAAVGTSV TVSAVDRDAH SVITYQITSG NTRNRFSTIS
QSGGGLVSLA LPDYKLERQ YVLAVTASDG TRQTAQIV NVTDANTHRP VFQSSHVTVN
VNEDRPAGTT VVLISATDED TGENARITYF MEDSIPQFRI DADTGAVTTQ AELDYEDQVS
YTLAITARDN GIPQKSDTTY LEILVNDVND NAPOFLRDSY QGSVYEDVPP FTSVLQISAT
DRDSGLNGRV FYTFQGGDDG DGDFIVESTS GIVRTLRRLD RENVAYVLR AYAVDKGNPP
ARTPMEVTVT VLDVNDNPPV FEQDEFDFV ARVTATDPDE GTNAQIMYQI

Homo
sapiens

VEGNIPEVFQ LDIFSGELTA LVLDLYEDRP EYVLVIQATS APLVSRATVH VRLIDRNDNP
 PVLGNFEILF NNYVTNRSS FPGGAIGRVP AHDPDISDSL TYSFERGNEL SLVLLNASTG
 ELKLSRALDN NRPLEAINSV LVSDGVHSTV AQCALRVIT TDEMLTHSIT LRLEDMSPER
 FLSPLLLGLFI QAAVATLATP PDHVVVENVQ RDTDAPGGHI INVLSVGQP PGGGGGPPFL
 PSEDLQERLY LNRSLITAI S AQRVLPFDDN ICLREPCENY MRCVSVLREF SSAPFIASSS
 VLFRPIHPVG GLRCRCPPGF TGDYCETEDV LCYSRPGCPH GRCSRREGGY TCLCRDGYTG
 EHEVSARS G RCTPGVCKNG GTCVNLLVGG FKDCPCSGDF EKPQCQVTR SFAHSFITE
 RGLRQRFHFT LALSFATKER DGLLLYNGRF NEKHDFVALE VIOEQQLTF SAGESTTTVS
 PFVPGGVSDG QWHTVQLKYY NKPLLGOTGL PQGPSEQKVA VVTVDGCDTG VALRFGSVLG
 NYSCAAQGTQ GSKKSLDLT GPLLLGGVPD LPESFPVRMR QFVGCNRLQ VDSRHIDMAD
 FIANNGTVP G CPAKKNVCD S NTCNNGGTCV NQWDAFSCCE PLGFGKSCA QEMANPQHFL
 GSSLVAWHGL SLPISQPWYL SLMFRTRQAD GVLLQAITRG RSTITLQLRE GHVMLSVEGT
 GLQASSLRE PGRANDGDWH HAQLALGASG GPGHAILSD YGQQRAGNL GPRHLGLHLS
 NITVGGIPGP AGGVARGFRG CLQGVRSVD T PEGVNSLDPS HGESINVEQG CSLDPDCDSN
 PCPANSYCSN DWDSYSCSD PGYGDNCTN VCDLNPCEHQ SVCTRKPSAP HGYTCECPN
 YLGPYCETRI DQPCPRGWG HPTGCPNCD VSKGFDPCDN KTSGECHKE NHYRPPGSPT
 CLLDCYPTG SLRVCDPED GQCPCKPGVI GRQCDRCN P FAEVTNGCE VNYDSCPRAI
 EAGIWPRT R FGLPAAACP KGSFGTAVRH CDEHRGWLP NLFNCTSITF SELKGFAERL
 QRNESGLDSG RSQQLALLR NATQHTAGYF GSDVKVAYQL ATRLAHEST QRCFGLSATQ
 DVHFTENLIR VGSALLDTAN KRHWELIQOT EGGTAWLLQ YEAYASALAQ NMRHTYLSPF
 TIVTPNIVIS VRLDKGNEA GAKLPRYEAL RGEQPPDL ET TVILPESVFR ETPPVVRPAG
 PGEAQEPEEL ARQRHPEL SOGEAVASVI IYRTLAGLLP HNYDPDKRSL RVPKRPIINT
 PVVISVHDD EELPRALDK PVTVQFRLE TEERTKPICV FWNHSLVSG TGGWSARGCE
 VVERNESHV S CQCNEHTSFA VLMDSVRREN GEILPLKLT YVALGVTLAA LLTFFFLTL
 LRILRSNQH G IRRNLTAA LG LAQLVFLGI NQADLPFACT VIAILLHFLY LCTFSWALLE
 ALHLYRALTE VRDVTGPMR FYMLGWGVP AFITGLAVGL DPEGYGNPDF CWLSIYDTLI
 WSEFAGVAF A VMSVFLYIL AARASCAAQR QGFEKKG PVS GLQPSFAVLL LLSATWLLAL
 LSVNSDTLLF HYLFCNCI QGPFIFLSYV VLSKEVRKAL KLACSRKPS DPALTTKSTL
 TSSYNCPSPY ADGRLYQPYG DSAGSLHSTS RSGKSQPSYI PFLREESAL NPGQPPGLG
 DPGSLFLEGQ DQQHPDPTDS DSDLSLEDDQ SGSYASTHSS DSEEEEEEE EEAAPGEQG
 WDSLILPGAE RLPLHSTPKD GPGPGKAPW PGDFGTAKE SSGNGAPEER LRENGDALSR
 EGSLGPLPGS SAQPHKGILK KKCLPTISEK SSLLRLPLEQ CTGSSRGSSA SEGSRGGPPP
 RPPRQSLQE QLNGVMPIAM SIKAGTVDED SSGSEFLFFN FLH
 cggcgaacag acgtctcttc tctccatgc agttacacaa aaggagggt acggaacta A
 aaagtctcg ggcctctggc tcggtgtgtg gagaaaagag aaaacttga gacggatat
 gaagatcaat gatcagact gatggtcttg atgaagctgg gcattataa ctagattcat
 taagggaatac aaagaaaaa cttaaaggga tcaataatgg tgtcttctgg ttgcagaatg
 cgaagtctgt ggtttatcat tgtaatcagc tcttaccac atacagaagg ttccagcaga
 gcagctttac catttggct ggtgaggcga gaattatcct gtgaagggtt ttctatagat
 ctgcgatgcc cgggcagtga tgtcatcatg attgagagcg ctaactatgg tcggacggat
 gacaaagattt gtgatgctga cccatttcat atggagaata cagactgcta cctccccgat

Homo
sapiens

gccttcaaaa ttatgactca aaggtgcaac aatggaacac agtgtatagt agttactggg
tcagatgtgt ttctgatcc atgtctgga acatacaaat accttgagt ccaatatgaa
tgtgtccctt acatttttgt gtgtctggg accttgaaag caattgtgga ctcaccatgt
atatatgaag ctgaacaaaa ggcgggtgct tgggtgcaag accctctca ggtgcagat
aaaatttatt tcatgccttg gactccctat cgtaccgata cttaataga atatgcttct
ttagaagatt tccaaaatag tgcceaaaaca acaacatata aacttccaaa tgcagtagat
ggtactggat ttgtggtgta tgatggtgct gtcttcttta acaagaagaag aacgaggaat
atgtgaaat ttgacttgag gactagaatt aagagtggcg aggccataat taactatgcc
aactaccatg atacctcacc atacagatgg ggaggaaaaga ctgatatoga cctagcagtt
gatgaaaatg gtttatgggt catttacgcc actgaacaga acaatggaat gatagtatt
agccagctga atccatacac tcttcgattt gaagcaacgt gggagactgt atacgacaaa
cgtgccgcat caaatgcttt tatgatatgc ggagtcctct acatttataa taccgatta
caagacaatg aaagtgaac aggcaagaac tcaattgatt acatttataa taccgatta
aacggaggag aatatgtaga cgttcccttc cccaaccagt atcagtatat tgcgtcagt
gattacaatc caagagataa ccaactttac gtgtggaaca ataatctcat ttacgatat
tctctggagt ttgtgccacc tgatccctgc caagtgccta ccacagctgt gacaataact
tcttcagctg agctgttcaa aaccataata tcaaccacaa gcactacttc acagaaaggc
cccatgagca cactgtagc tggatcacag gaagggaaga aagggaacaa accacctcca
gcagtttcta caacaaaaat tccacctata acaatatatt tccctgccc agagagattc
tgtgaagcat tagactccaa ggggataaag tggcctcaga caaaaagggg aatgatgggt
gaacgacctat gccctaaggg aacaagagga actgcctcat atctctgcat gatttccact
ggaacatgga accctaaggg cccgatctt agcaactgta cctcacactg ggtgaatcac
ctggctcaga agatcagaag cggagaaaat gctgctagtc ttgceatga actggctaaa
cataccaaaag ggcagtggtt tgctggggat gtaagtctct cagttagatt gatggagcag
ttggtggaca tccttgatgc acagctgcag gaactgaaac ctagtgaata agattcagct
ggacggagtt ataacaaggc aattgttgac acagtggaca accctctgag acctgaagct
ttggaatcat ggaacatat gaattcttct gaacaagcac atactgcaac atgtttactc
gatacatgg aagaaggagc ttttgtccta gctgacaatc ttttagaacc acaagggtc
tcaatgccca cagaaaaat tgctctgga gttgccgtac tcagtacaga aggacagatc
caagacttta aatttctct gggcatcaaa ggagcaggca gctcaatcca actgtccgca
aataccgtca aacagaacag caggaaatggg ctgcaaaagt tgggtttcat catttaccg
agcctgggac agttccttag tacagaaaat gcaaccatta aactgggtgc tgattttatt
ggtcgtata gcaccattgc agtgaactct cagctcattt cagtttcaat caataaagag
tccagccgag tataoctgac tgatcctgtg ctttttacc tgceacacat tgatcctgac
aattatttca atgcaaaactg ctcttcttg aactactcag agagaactat gatgggatat
tgggtctacc agggctgcaa gctgggtgac actaataaaa ctogaacaa gtgtgcagtc
agccacctaa ccaattttgc aattctcatg gccacacagg aattgcata taaagatggc
gttcataat tacttcttac agtcatcacc tgggtgggaa ttgtcatttc ccttgtttgc
ctggctatct gcattctcac ctctgcttt tccctggcc tacagagtga cgaataact
attcaaga acctttgtat caaccttttc atgtctgaat ttatttctt aataggcatt
gataagacaa aatatgcat tgcctgcca atatttgag gacttctaca cttttcttt

ttggcagctt ttgcttgat gtgcctagaa ggtgtgcagc tctacctaat gtagttgaa
gttttgaaa gtgaatattc aaggaaaaaa tattactatg ttgctggtta cttgtttcct
gccacagtgg ttggagtctt agctgctatt gactataaga gctatggaac agaaaaagct
tgctggcttc atgttgataa ctactttata tggagcttca ttggacctgt taccttcatt
attctgctaa atattatctt ctgtgtgac acatttgca aaatggtgaa gcattcaaac
actttgaaac cagattctag caggttgaa aacattaa gtgggtgct tggcgctttc
gctcttctgt gtcttcttgg cctcacctgg tcccttgggt tgccttttat taatgaggag
actattgtga tggcatatct cttcaactata tttaatgctt tccaggaggt gttcattttc
atctttcact gtgctctcca aaagaaaagta cgaaaagaat atggcaagtg cttcagacac
tcatactgct gtggaggcct cccaactgag agtccccaca gttcagttaa ggcatacaac
accagaacca gtgctcgcta ttcctctggc acacagagtc gtataagaag aatgtggaat
gatactgtga gaaaacaatc agaactctct tttatctcag gtgacatcaa tagcacttca
acacttaatc aaggacattc actgaacaat gccagggata caagtggcat ggatactcta
ccgtaaaatg gtaattttta caacagctac tgcctgcaca aggttgacta taatgacagc
gtgcaagtgg tggactgtgg actaagctcg aatgatactg cttttgagaa aatgatcatt
tcagaattag tgcacaacaa cttacggggc agcagcaaga ctcaaacct cgagctcacg
ctaccagtca aacctgtgat tggaggtagc agcagtgaag atgatgctat tgtggcagat
gcttcacttt taatgcacag cgacaacca gggctggagc tccatcaca agaactcgag
gcaccactta ttcctcagcg gactcactcc cttctgtacc aaccacagaa gaaagtgaag
tccgagggaa ctgacagcta tgtctcccaa ctgacagcag aggctgaaga tcacctacag
tcccccaaca gagactctct ttatacaagc atgccaatc ttagagactc tccctatccg
gagagcagcc ctgacatgga agaagacctc tctcctcca gaggagtgga gaatgaggac
attactata aaagcatgcc aaatcttggg gctggccatc agcttcagat gtgctaccag
atcagcaggg gcaatagtga tggttatata atccccatta acaagaagag gtgtattcca
gaaggagatg ttagagaagg acaaatgcag ctgggttaca gctcttaac atacagctaa
ggaattccaa gggccacatg cgagtattaa taaataaaga caccattggc ctgacgcagc
tccctcaaac ctgcttgaa gagatgactc ttgacctgtg gttctctggt gtaaaaaaga
tgactgaacc ttgcagtctt gtgaattttt ataaacata caaaaacttt gtatatcac
agagtatact aaagtgaatt atttgttaca agaaaaagag atgccagcca ggtattttaa
gattctgctg ctgttttagag aaattgtgaa acaagcaaaa caaaactttc cagccatttt
actgcagcag tctgtgaact aaattgttaa atatggctgc accatttttg taggcctgca
ttgtattata tacaagacgt aggcctttaa atcctgtggg acaaatttac tgtaccttac
tattcctgac aagacttggg aaagcagag agatattctg catcagtttg cagttcactg
caaatctttt acattaagcg aaagattgaa acatgctta accactagca atcaagccac
aggccttatt tcatatgttt cctcaactgt acaatgaact attctcatga aaaatggcta
aagaatttat attttgttct attgctaggg taaaataaat acatttgtgt ccaactgaaa
tataattgct attaaaaata ttttaagag tgaagaaaat attgtgaaaa gctcttggtt
gcacatgtta tgaatgttt tttctacac ttgtcatgg taagtcttac tcattttcac
ttcttttcca ctgtatacag tgttctgctt tgacaaagt agtctttatt acttacattt
aaatttctta ttgccaaaag aacgtgtttt atggggagaa acaaaccttt tgaagccagt
tatgtcatgc cttgcacaaa agtgatgaaa tctagaaaaa attgtgtgct accctgttt

attcttgaac agagggcaaa gagggcactg ggcacttctc acaactttc tagtgaacaa
aaggcgccta ttctttttt

SEQ ID NO:	LSID	Gene	Source ID	LPID	Peptide	SpeciesName
692	127	5-HT1A Receptor	P08908	595	CAPASFERKNERNAEAKRKM	Homo sapiens
693	127	5-HT1A Receptor	P08908	608	GRIFRAARFIRKTVKKVE	Homo sapiens
694	127	5-HT1A Receptor	P08908	610	RTPEDRSDPDACTISK	Homo sapiens
695	127	5-HT1A Receptor	P08908	612	RHGASAPAPQPKKSVNGE	Homo sapiens
696	128	5-HT1B Receptor	P28222	585	KQTPNRTGKRLTRAQLITD	Homo sapiens
697	128	5-HT1B Receptor	P28222	586	SPGSTSSVTSINSRVPD	Homo sapiens
698	128	5-HT1B Receptor	P28222	598	KVRVSDALLEKKLMA	Homo sapiens
699	128	5-HT1B Receptor	P28222	599	ANLSSAPSQNCsAKD	Homo sapiens
700	129	5-HT1D Receptor	P28221	577	IKLADSALERKRISAA	Homo sapiens
701	129	5-HT1D Receptor	P28221	588	QEASNRSLNATETSEA	Homo sapiens
702	129	5-HT1D Receptor	P28221	589	RIYRAARNRILNPPSL	Homo sapiens
703	129	5-HT1D Receptor	P28221	590	KAQEEMSDCLVNTSQIS	Homo sapiens
704	130	5-HT1E Receptor	P28566	815	RHLSNIRSTDSQNSFASC	Homo sapiens
705	130	5-HT1E Receptor	P28566	817	CTTEASMAIRPKTITEKM	Homo sapiens
706	130	5-HT1E Receptor	P28566	818	DNDLDHPGERQQISST	Homo sapiens
707	130	5-HT1E Receptor	P28566	2738	CVSDFSTSDPTTEFEK	Homo sapiens
708	130	5-HT1E Receptor	P28566	2739	RIYHAAKSLYQIKRGSSR	Homo sapiens
709	131	5-HT1F Receptor	P30939	604	ESGEKSTKSVSTSYVL	Homo sapiens
710	131	5-HT1F Receptor	P30939	606	DKCKISEEMSNFLAWLG	Homo sapiens
711	131	5-HT1F Receptor	P30939	864	IAKEEVNGQVLESGE	Homo sapiens
712	131	5-HT1F Receptor	P30939	869	STVRSLSREFKHEKSWR	Homo sapiens
713	132	5-HT2A Receptor	CAA01675.1	1106	DAFNWTVDSNRINLSC	Homo sapiens
714	132	5-HT2A Receptor	CAA01675.1	1107	FGLQDDSKVKEGSC	Homo sapiens
715	132	5-HT2A Receptor	CAA01675.1	1108	PGSYTGRRITMQSISNEQKAC	Homo sapiens
716	132	5-HT2A Receptor	CAA01675.1	1109	CSMVALGKGHSEEAASKDNSD	Homo sapiens
717	132	5-HT2A Receptor	CAA01675.1	1110	NTPALAYKSSQLGMGQ	Homo sapiens
718	133	5-HT2B Receptor	P41595	1111	KGIETDVDPNNITC	Homo sapiens
719	133	5-HT2B Receptor	P41595	1112	CSSPEKVAMLDGSRKDKA	Homo sapiens
720	133	5-HT2B Receptor	P41595	1113	RRITSTIGKSKVQTSNE	Homo sapiens
721	133	5-HT2B Receptor	P41595	1114	CNYRATKSVKTLKRSSK	Homo sapiens
722	133	5-HT2B Receptor	P41595	1187	SGLQTESIPEEMKQIVVEEQG	Homo sapiens
723	134	5-HT2C Receptor	P28335	1115	CKRNTAEENSANPNQDQNA	Homo sapiens
724	134	5-HT2C Receptor	P28335	1116	GHTEEPPGLSLDFLKC	Homo sapiens
725	134	5-HT2C Receptor	P28335	1117	CNYKVEKKPPVRQIPRV	Homo sapiens
726	134	5-HT2C Receptor	P28335	1118	IGLRDEEKVFVNITC	Homo sapiens

727	134	5-HT2C Receptor	P28335	1119	RHTNEPVIEKASDNEP	Homo sapiens
728	134	5-HT2C Receptor	NP_000859.1	1826	RNAVHSFLVHLIGLLVWQCD	Homo sapiens
729	134	5-HT2C Receptor	NP_000859.1	1829	CDISVSPAIVTDIFNTSD	Homo sapiens
730	134	5-HT2C Receptor	NP_000859.1	1830	DGGRFKPDGVQNWPAIS	Homo sapiens
731	136	5-HT4 Receptor	CAA73107.1	654	NNIGIIDIEKRFNG	Homo sapiens
732	136	5-HT4 Receptor	CAA73107.1	655	ESRQSAHQHSTHRMR	Homo sapiens
733	136	5-HT4 Receptor	CAA73107.1	656	CDDERVRRPSILGQTP	Homo sapiens
734	136	5-HT4 Receptor	CAA73107.1	657	RDAVECGGWESQCHPPATS	Homo sapiens
735	136	5-HT4 Receptor	CAA73107.1	2682	VTAKEHAHQIQLQRAGASSSRP	Homo sapiens
736	136	5-HT4 Receptor	CAA73107.1	2683	KSFRRAFLILCCODE	Homo sapiens
737	136	5-HT4 Receptor	CAA73107.1	2684	VTAKEHAHQIQLQRAGA	Homo sapiens
738	136	5-HT4 Receptor	CAA73107.1	2685	KEHAHQIQLQRAGA	Homo sapiens
739	136	5-HT4 Receptor	CAA73107.1	2686	VTAKEHAHQIQLQR	Homo sapiens
740	138	5-HT6 Receptor	P50406	649	RTPRPGVESADSRRLATK	Homo sapiens
741	138	5-HT6 Receptor	P50406	650	CPRERQASLASPSLRIS	Homo sapiens
742	138	5-HT6 Receptor	P50406	652	PLFMRDFKRALGRFLPC	Homo sapiens
743	138	5-HT6 Receptor	P50406	653	RAAAAANFFNIDPAEPE	Homo sapiens
744	139	5-HT7 Receptor	P34969	658	EVTASAPTWDAPPDNASGC	Homo sapiens
745	139	5-HT7 Receptor	P34969	659	KAARKSAAKHKFPGFPRVE	Homo sapiens
746	139	5-HT7 Receptor	P34969	660	CANLSRLKHERKNISIFKR	Homo sapiens
747	139	5-HT7 Receptor	P34969	663	KLAERPERPEFVLKAC	Homo sapiens
748	272	Adenosine A1 Receptor	AAA17544.1	8	CHKPSILTYIAFLT	Homo sapiens
749	272	Adenosine A1 Receptor	AAA17544.1	9	NGSMGEPVKEFEKVISME	Homo sapiens
750	272	Adenosine A1 Receptor	AAA17544.1	10	NKKV/SASSGDPQKYVGKELK	Homo sapiens
751	272	Adenosine A1 Receptor	AAA17544.1	11	NDHFRCCQPAPPIDEDLPEER	Homo sapiens
752	272	Adenosine A1 Receptor	P25099	286	CQPKPIDEDLPEEKAE	Rattus norvegicus
753	272	Adenosine A1 Receptor	P25099	302	QPKPIDEDLPEEKAE	Rattus norvegicus
754	272	Adenosine A1 Receptor	AAA17544.1	303	MPPSISAFQAAYIGIEVU	Homo sapiens
755	273	Adenosine A2a Receptor	P29274	1237	QGNGLPDVELLSHELKGV	Homo sapiens
756	273	Adenosine A2a Receptor	P29274	1238	MPIMGSSVITVELAIA	Homo sapiens
757	273	Adenosine A2a Receptor	P29274	1239	RSHVLRQQEPKAAAGT	Homo sapiens
758	273	Adenosine A2a Receptor	P11617	1240	RIREFRQTRKIRSH	Canis familiaris
759	274	Adenosine A2b Receptor	P29275	676	KDSATNNCTEPWDGTNES	Homo sapiens
760	274	Adenosine A2b Receptor	P29275	677	CRQLQRTELMDSRRTLQRE	Homo sapiens
761	274	Adenosine A2b Receptor	P29275	678	RNRDFRYTFHKISRYLLC	Homo sapiens
762	274	Adenosine A2b Receptor	P29275	679	CQADVKSNGGQAGVQP	Homo sapiens

763	274	Adenosine A2b Receptor	P29275	680	CVTLFQPAQGKNPKW	Homo sapiens
764	274	Adenosine A2b Receptor	P29275	2714	MILETQDALVVALELVIAAL	Homo sapiens
765	275	Adenosine A3 Receptor	P33765	683	IFYIIRNKLSNLNSKE	Homo sapiens
766	275	Adenosine A3 Receptor	P33765	686	NMKLTSEYHRNVTFSLC	Homo sapiens
767	275	Adenosine A3 Receptor	P33765	687	AYKIKFKETYLLKAC	Homo sapiens
768	275	Adenosine A3 Receptor	P33765	689	TGAFYGREFTAKSLF	Homo sapiens
769	275	Adenosine A3 Receptor	P33765	2296	KRVTHRRRIWIALGLC	Homo sapiens
770	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	4	CPRVVLPEEFTIS	Homo sapiens
771	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	5	MGYLKPRGSFETTADIIDS	Homo sapiens
772	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	6	RYHSIVTMRRTVVVLT	Homo sapiens
773	309	Melanocortin 2 Receptor (adrenocorticotrophic hormone) (MC2R)	CAA46587.1	7	AFRSPELRDAFKMIFC	Homo sapiens
774	376	Alpha 1d-adrenoceptor	AAA35496.1	12	RSTTRSLGAVKRERKASE	Homo sapiens
775	376	Alpha 1d-adrenoceptor	AAA35496.1	13	KEVPDPDERFCGITEEAG	Homo sapiens
776	376	Alpha 1d-adrenoceptor	AAA35496.1	14	RSTEMVQRLRMEAVQ	Homo sapiens
777	376	Alpha 1d-adrenoceptor	AAA35496.1	15	PRPSCAPKSPACRTRSP	Homo sapiens
778	377	Alpha 1b-adrenoceptor	P35368	696	KEMSNKELTRIHSK	Homo sapiens
779	377	Alpha 1b-adrenoceptor	P35368	697	GGSLERSGSRKDSLDDSGSC	Homo sapiens
780	377	Alpha 1b-adrenoceptor	P35368	698	APEPPGRRGRHDSGPL	Homo sapiens
781	377	Alpha 1b-adrenoceptor	P35368	699	KLLTEPESPGTDGGASNGGC	Homo sapiens
782	379	Alpha 1c-adrenoceptor	AAA93114.1	1245	GSGMASAKTKTHFSVR	Homo sapiens
783	379	Alpha 1c-adrenoceptor	AAA93114.1	1246	RIPVGSREIFYRISKTDGVC	Homo sapiens
784	379	Alpha 1c-adrenoceptor	AAA93114.1	1247	SSMPRGSARITVSKDQSSC	Homo sapiens
785	379	Alpha 1c-adrenoceptor	AAA93114.1	1248	ESRGLKSLKTDKSDS	Homo sapiens
786	387	Alpha 2a-adrenoceptor	P08913	1343	ERRPNGLGPERSAAGPG	Homo sapiens
787	387	Alpha 2a-adrenoceptor	P08913	1344	PGEPAAGPRDITDALT	Homo sapiens
788	387	Alpha 2a-adrenoceptor	P08913	1345	RGPRGKGKARASQVKPGD	Homo sapiens
789	387	Alpha 2a-adrenoceptor	P08913	1346	RGPGATGIGTPAAGPGE	Homo sapiens
790	387	Alpha 2a-adrenoceptor	P08913	1347	RVGAAKASRWGRQNRE	Homo sapiens
791	388	Alpha 2b-adrenoceptor	P18089	1348	YKGDQGPQPRGRPQC	Homo sapiens

792	388	Alpha 2b-adrenoceptor	P18089	1349	RSNRRGPRAKGGPGQGE	Homo sapiens
793	388	Alpha 2b-adrenoceptor	P18089	1350	ASAREVNGHSKSTGEK	Homo sapiens
794	388	Alpha 2b-adrenoceptor	P18089	1351	RGVGAIGGQWWRRRAH	Homo sapiens
795	389	Alpha 2c-adrenoceptor	P18825	1352	RAPVGPDGASPTTENG	Homo sapiens
796	389	Alpha 2c-adrenoceptor	P18825	1353	RTGTARPPPTWSRTR	Homo sapiens
797	389	Alpha 2c-adrenoceptor	P18825	1354	ASRSPGPGGRLSPASS	Homo sapiens
798	389	Alpha 2c-adrenoceptor	P18825	1355	RSVEFFLSRRRRARSSVC	Homo sapiens
799	599	Bradykinin B1 Receptor	P46663	798	PMASGRGQRRRQARVTC	Homo sapiens
800	599	Bradykinin B1 Receptor	P46663	799	NYHILASLRTREEVSR	Homo sapiens
801	599	Bradykinin B1 Receptor	P46663	800	RVRGPKDSKTTALIT	Homo sapiens
802	599	Bradykinin B1 Receptor	P46663	801	VGRLFRTKWELYKQC	Homo sapiens
803	600	Bradykinin B2 Receptor	AAB02793.1	794	FRIMKEYSDEGHNTAC	Homo sapiens
804	600	Bradykinin B2 Receptor	AAB02793.1	795	CTMQIMQVLRNNEMQKKE	Homo sapiens
805	600	Bradykinin B2 Receptor	AAB02793.1	796	CQDERIIDVITQASFM	Homo sapiens
806	600	Bradykinin B2 Receptor	AAB02793.1	797	CRSEPIQMENSMTLRTS	Homo sapiens
807	635	Beta-1 adrenoceptor	AAA51667.1	1357	RVFREAGKQVKKIDSC	Homo sapiens
808	635	Beta-1 adrenoceptor	AAA51667.1	1358	CERFLGGPARPPSPS	Homo sapiens
809	635	Beta-1 adrenoceptor	AAA51667.1	1359	ANGRAGKRRPSRLVALRE	Homo sapiens
810	635	Beta-1 adrenoceptor	AAA51667.1	1360	CARRAARRRHATHGDRPRAS	Homo sapiens
811	635	Beta-1 adrenoceptor	AAA51667.1	1361	CLARPGPPSPGAASD	Homo sapiens
812	635	Beta-1 adrenoceptor	AAA51667.1	1362	CNGGAAADSDSLDEP	Homo sapiens
813	640	Beta-2 adrenoceptor	NP_000015.1	2654	KRQLQKIDKSEGRFHV	Homo sapiens
814	640	Beta-2 adrenoceptor	NP_000015.1	2656	GEQSGYHVEQEKENKLLC	Homo sapiens
815	640	Beta-2 adrenoceptor	NP_000015.1	2662	APNIRSHAPDHDVTQQR	Homo sapiens
816	640	Beta-2 adrenoceptor	NP_000015.1	2663	VPLVMVFVYSRVFQE	Homo sapiens
817	643	Beta-3 adrenoceptor	P13945	1390	RGELGRFPPEESPAP	Homo sapiens
818	643	Beta-3 adrenoceptor	P13945	1391	SPSLAPAPVGTCAPE	Homo sapiens
819	643	Beta-3 adrenoceptor	P13945	1392	GVPACGRRPARLLPRE	Homo sapiens
820	643	Beta-3 adrenoceptor	P13945	1393	PSGVPAAARSSPAQPRLC	Homo sapiens
821	688	Opsin, blue-sensitive	NP_001699.1	1753	EEEFYLFKNISSVGPWDGPQ	Homo sapiens
822	688	Opsin, blue-sensitive	NP_001699.1	1754	CGPDWTVVGTKYRSESYT	Homo sapiens
823	688	Opsin, blue-sensitive	NP_001699.1	1755	NNRNHGLDLRLVTIPS	Homo sapiens
824	688	Opsin, blue-sensitive	NP_001699.1	1756	IMKMVCGKAMTDESDT	Homo sapiens
825	692	Bombesin Receptor Subtype-3	AAA35604.1	20	SITNDESSSSVVSNDTNK	Homo sapiens
826	692	Bombesin Receptor Subtype-3	AAA35604.1	21	KAVVKPLERQPSNAILKTC	Homo sapiens

827	692	Bombesin Receptor Subtype-3	AAA35604.1	22	RDPNKNMTFESCTSPVSKK	Homo sapiens
828	692	Bombesin Receptor Subtype-3	AAA35604.1	23	RTLYKSTLINIPTEEQSHARK	Homo sapiens
829	692	Bombesin Receptor Subtype-3	AAA35604.1	24	KSFQKHFKAKQLFCCKAERPE	Homo sapiens
830	692	Bombesin Receptor Subtype-3	NP_001718.1	2286	NKGWSGDNSPGIEALC	Homo sapiens
831	692	Bombesin Receptor Subtype-3	NP_001718.1	2287	GRQPHSPNQTLISITNDTE	Homo sapiens
832	692	Bombesin Receptor Subtype-3	NP_001718.1	2288	RPEPPVADTSLTLAV	Homo sapiens
833	692	Bombesin Receptor Subtype-3	NP_001718.1	2289	SEISVTSFTGCSVKQAEDR	Homo sapiens
834	729	CXC Chemokine Receptor 5	P32302	1382	ELDRLDNYNDTSLVENHLC	Homo sapiens
835	729	CXC Chemokine Receptor 5	P32302	1383	SGGHHNNSLPRCTFSQE	Homo sapiens
836	729	CXC Chemokine Receptor 5	P32302	1384	CWVGWVHLRQAQRPR	Homo sapiens
837	729	CXC Chemokine Receptor 5	P32302	1385	CQLFSPWRRSSSESENA	Homo sapiens
838	735	C-C Chemokine Receptor 1	P32246	305	TEDYDTTTFDYGDAIPC	Homo sapiens
839	735	C-C Chemokine Receptor 1	P32246	1242	ASMPGLYFSKTQWEFTHTC	Homo sapiens
840	735	C-C Chemokine Receptor 1	P32246	1243	CSLHFPHESLREWKLFQA	Homo sapiens
841	735	C-C Chemokine Receptor 1	P32246	1244	TILSVFQDFLTHEC	Homo sapiens
842	737	C-C Chemokine Receptor 3	P51677	1386	CSALYPEDTVSWRHF	Homo sapiens
843	737	C-C Chemokine Receptor 3	P51677	1387	PEFIFYETEELFEETLC	Homo sapiens
844	737	C-C Chemokine Receptor 3	P51677	1388	SSYQSILFGNDCERSK	Homo sapiens
845	737	C-C Chemokine Receptor 3	P51677	1389	GRYIPFLPSEKLRTS	Homo sapiens
846	737	C-C Chemokine Receptor 3	P51677	1751	DDVGLLCEKADTRALMAQFV	Homo sapiens
847	738	C-C Chemokine Receptor 4	P51680	306	MNATEVIDTIQDETIVNSVY	Mus musculus
848	738	C-C Chemokine Receptor 4	P51679	348	DESIYSNWLYESIPKPC	Homo sapiens
849	738	C-C Chemokine Receptor 4	P51679	351	DTPSSSYTGSTMDHDLHD	Homo sapiens
850	738	C-C Chemokine Receptor 4	P51679	353	LETLEVEVLQDCFE	Homo sapiens
851	738	C-C Chemokine Receptor 4	P51679	491	RNHTYCKTKYSLNSTWK	Homo sapiens
852	741	C-C Chemokine Receptor 7	P32248	748	CQDEVTDYIGDNTVD	Homo sapiens
853	741	C-C Chemokine Receptor 7	P32248	846	PELLYSDLQRSSEQAMRC	Homo sapiens
854	741	C-C Chemokine Receptor 7	P32248	847	QLRQWSSCRHRRSSMSVE	Homo sapiens
855	741	C-C Chemokine Receptor 7	P32248	848	GVKFRNDLFLKFDLGC	Homo sapiens
856	742	C-C Chemokine Receptor 8	P51685	359	PDIFSSPCDAELIGTING	Homo sapiens

857	742	C-C Chemokine Receptor 8	P51685	360	KILHQLKRCQNHINKTAIR	Homo sapiens
858	742	C-C Chemokine Receptor 8	P51685	362	SQIFNYLGRQMPRESC	Homo sapiens
859	742	C-C Chemokine Receptor 8	P51685	493	FVGEKFKHLSEIFQKSC	Homo sapiens
860	752	CXC Chemokine Receptor 3	P49682	1371	ENFSSSYDYGENESDSC	Homo sapiens
861	752	CXC Chemokine Receptor 3	P49682	1372	CYAHILAVLLVSRGQRRLRA	Homo sapiens
862	752	CXC Chemokine Receptor 3	P49682	1373	MVLEVSDHQVLNDAEVAALL	Homo sapiens
863	752	CXC Chemokine Receptor 3	P49682	1374	CPNGQRGLQRQPSSRRD	Homo sapiens
864	753	CXC Chemokine Receptor 4	P30991	1376	TEEMGSGDYDSMKEPC	Homo sapiens
865	753	CXC Chemokine Receptor 4	P30991	1377	KKLRMTDKYRLHLSVAD	Homo sapiens
866	753	CXC Chemokine Receptor 4	P30991	1380	CIISKLSHSGHGKQRKALK	Homo sapiens
867	753	CXC Chemokine Receptor 4	P30991	1381	KILSKGKRGHSHSVSTE	Homo sapiens
868	755	Complement Component 3a Receptor 1	AAC50657.1	25	ENRSLNIVQPPGEMNDRDL	Homo sapiens
869	755	Complement Component 3a Receptor 1	AAC50657.1	26	KIPSGFPIEDHETSPLDNSD	Homo sapiens
870	755	Complement Component 3a Receptor 1	AAC50657.1	27	RKKARQSIQIGILEAAFSEE	Homo sapiens
871	755	Complement Component 3a Receptor 1	AAC50657.1	28	PQTFQRPADSLSLPRGSARLT	Homo sapiens
872	758	Complement Component 5a Receptor 1	P21730	811	DLNTPVDKTSNLTLRVPD	Homo sapiens
873	758	Complement Component 5a Receptor 1	P21730	812	CGVDYSHDKRRERAVAIVRL	Homo sapiens
874	758	Complement Component 5a Receptor 1	P21730	813	CYTFILLRTWSRRATRSTK	Homo sapiens
875	758	Complement Component 5a Receptor 1	P21730	814	QGRRLKSLPSLLRNVLTE	Homo sapiens
876	767	Calcitonin Receptor-like Receptor	Q16602	841	AELEESPEDSIQLGVTR	Homo sapiens
877	767	Calcitonin Receptor-like Receptor	Q16602	843	EFVLIPWRPEGKIAEEV	Homo sapiens
878	767	Calcitonin Receptor-like Receptor	Q16602	844	RRNWNQYKIQFGNSFSNSE	Homo sapiens
879	767	Calcitonin Receptor-like Receptor	Q16602	845	RSASYTVTISDGGPGYSHDC	Homo sapiens
880	832	Cannabinoid Receptor 1	AAB18200.1	29	NDIQYEDIKGDMAASKLG	Homo sapiens
881	832	Cannabinoid Receptor 1	AAB18200.1	30	KENFENIQCGENFMFDIE	Homo sapiens
882	832	Cannabinoid Receptor 1	AAB18200.1	31	EDGKVKVTRPDQARMDIR	Homo sapiens

883	832	Cannabinoid Receptor 1	AAB18200.1	32	CEGTAGPLDNSMGDSD	Homo sapiens
884	832	Cannabinoid Receptor 1	AAB18200.1	274	MKSILDGLADITFR	Homo sapiens
885	832	Cannabinoid Receptor 1	AAB18200.1	297	NKLSSEKENEENIQ	Homo sapiens
886	833	Cannabinoid Receptor 2	CAA52376.1	33	KDGLDSNPMKDYMILSGPQK	Homo sapiens
887	833	Cannabinoid Receptor 2	CAA52376.1	34	QDRQVPGMARMRLDVRLAKT	Homo sapiens
888	833	Cannabinoid Receptor 2	CAA52376.1	35	KEEAPRSSVTETEADGK	Homo sapiens
889	833	Cannabinoid Receptor 2	CAA52376.1	36	RSGEIRSSAHCLAHWKCC	Homo sapiens
890	922	Leukocyte Antigen CD97	NP_001775.1	2644	GRDPPAKDVMMPGRQELLC	Homo sapiens
891	922	Leukocyte Antigen CD97	NP_001775.1	2646	CSPGYEPVSGAKTFKN	Homo sapiens
892	922	Leukocyte Antigen CD97	NP_001775.1	2647	FSSFSEIITPTETC	Homo sapiens
893	922	Leukocyte Antigen CD97	NP_001775.1	2648	CRPGWKPRHGIPNNQK	Homo sapiens
894	922	Leukocyte Antigen CD97	NP_001775.1	2649	DGEAGRDPPAKDVMMPGPR	Homo sapiens
895	922	Leukocyte Antigen CD97	NP_001775.1	2650	ANASLNLSHKKQAELE	Homo sapiens
896	922	Leukocyte Antigen CD97	NP_001775.1	2651	RLSAVNSIFLSHNNTKE	Homo sapiens
897	922	Leukocyte Antigen CD97	NP_001775.1	2652	KLTKGFSEINPDMKKL	Homo sapiens
898	922	Leukocyte Antigen CD97	NP_001775.1	2680	KLVDLMEAPGDVEAL	Homo sapiens
899	922	Leukocyte Antigen CD97	NP_001775.1	2681	RFFDKVQDLGRDSTSS	Homo sapiens
900	941	EMR1 Hormone Receptor	Q14246	1180	RAEYLDIESKVINKEC	Homo sapiens
901	941	EMR1 Hormone Receptor	Q14246	2675	CVMHWSWEGHIRTPRKPNK	Homo sapiens
902	941	EMR1 Hormone Receptor	Q14246	2677	CLLNGQVREEYKRWITGKTP	Homo sapiens
903	941	EMR1 Hormone Receptor	Q14246	2678	CLLNGQVREEYKRWITGK	Homo sapiens
904	941	EMR1 Hormone Receptor	Q14246	2679	SGHLSCQGLKASCE	Homo sapiens
905	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1183	GTALANGTGESEHQG	Homo sapiens
906	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1184	ADSUEVFNLHERYYD	Homo sapiens
907	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1185	VRAHRHRLRPRRQKA	Homo sapiens
908	965	G Protein-Coupled Receptor GPR30	CAA67133.1	1186	DKLRLYIEQKTNLPALNRF	Homo sapiens
909	978	Cholecystokinin A Receptor	P32238	820	AKERKPSITSSGKYEDSDGC	Homo sapiens
910	978	Cholecystokinin A Receptor	P32238	821	CYLQKTRPPRKLELRQ	Homo sapiens
911	978	Cholecystokinin A Receptor	P32238	822	SANAWRAYDTASAERR	Homo sapiens
912	978	Cholecystokinin A Receptor	P32238	823	CPNPGPPGARGEVGEE	Homo sapiens
913	1103	Corticotropin releasing factor Receptor 2	Q13324	453	CEPILDDKQRKYDLHYRIAL	Homo sapiens
914	1103	Corticotropin releasing factor Receptor 2	Q13324	502	QLVDHEVHESNEVWC	Homo sapiens

915	1103	factor Receptor 2	Q13324	505	DPEGPYSYCNITLDQIGTCW	Homo sapiens
916	1103	Corticotropin releasing factor Receptor 2	LR43	507	ALLEQYCHTMITLNLG	Homo sapiens
917	1240	Dopamine Receptor D1	CAA41734.1	41	SSHHEPRGSISKEC	Homo sapiens
918	1240	Dopamine Receptor D1	CAA41734.1	42	KAKPTSPSDGNATSLAETID	Homo sapiens
919	1240	Dopamine Receptor D1	CAA41734.1	43	CSQPESSEFKMSFKRE	Homo sapiens
920	1240	Dopamine Receptor D1	CAA41734.1	44	EDLKKEEAAGIARPLEK	Homo sapiens
921	1241	Dopamine Receptor D5	P21918	1407	PWEEDFWEPDVNAENC	Homo sapiens
922	1241	Dopamine Receptor D5	P21918	1408	CAPDTSLRASIKKETK	Homo sapiens
923	1241	Dopamine Receptor D5	P21918	1409	PNAVTPGNREVDNDEE	Homo sapiens
924	1241	Dopamine Receptor D5	P21918	1410	QTSPDGDPAESVWELDC	Homo sapiens
925	1242	Dopamine Receptor D2	P14416	1403	KRSSRAFAHLRAPLKGNC	Homo sapiens
926	1242	Dopamine Receptor D2	P14416	1404	CTVIMKSNGSFPVNRVRV	Homo sapiens
927	1242	Dopamine Receptor D2	P14416	1405	KPEKNHGAKDHPKIAK	Homo sapiens
928	1242	Dopamine Receptor D2	P14416	1406	GKTRISLKTMSRRKLSQQKE	Homo sapiens
929	1243	Dopamine Receptor D3	P35462	1398	KQRRRKRLTRQNSQC	Homo sapiens
930	1243	Dopamine Receptor D3	P35462	1399	CNSVRPGFPQQTLSPDP	Homo sapiens
931	1243	Dopamine Receptor D3	P35462	1400	CQDTALGGPGFQERGGGE	Homo sapiens
932	1243	Dopamine Receptor D3	P35462	1401	KREKTRNSLSPTIAP	Homo sapiens
933	1243	Dopamine Receptor D3	P35462	1402	STSLKLGPLQPRGVPLRE	Homo sapiens
934	1244	Dopamine Receptor D4	P21917	1394	VAVAVPLRVNRQGGSR	Homo sapiens
935	1244	Dopamine Receptor D4	P21917	1395	EVARRAKLHGRRPRRP	Homo sapiens
936	1244	Dopamine Receptor D4	P21917	1396	PPSPTPPAPRLPQDPC	Homo sapiens
937	1244	Dopamine Receptor D4	P21917	1397	PPQTPPQTRRRRRRAKITGRE	Homo sapiens
938	1267	Op1oid Receptor, delta 1 (OPRD1)	AAA18789.1	222	DAYPSAFPSAGANASGP	Homo sapiens
939	1267	Op1oid Receptor, delta 1 (OPRD1)	AAA18789.1	224	LVDIRRDPLVVAALHLC	Homo sapiens
940	1267	Op1oid Receptor, delta 1 (OPRD1)	AAA18789.1	225	KRCFRQLCRKPCGRPD	Homo sapiens
941	1267	Op1oid Receptor, delta 1 (OPRD1)	AAA18789.1	226	SRPREATARERTVAC	Homo sapiens
942	1424	Duffy Antigen	AAC50055.1	1411	TENSSQLDFEDVWNSS	Homo sapiens
943	1424	Duffy Antigen	AAC50055.1	1412	NDSFPDGDYDANILEAAAPC	Homo sapiens
944	1424	Duffy Antigen	AAC50055.1	1413	CHASLGHRLGAGQVPG	Homo sapiens

945	1424	Duffy Antigen	AAC50055.1	1415	FGAKGLKALGMGPGP	Homo sapiens
946	1451	EBV-Induced Gene 2	AAA35924.1	45	KQEAERTCMVEYFNFEET	Homo sapiens
947	1451	EBV-Induced Gene 2	AAA35924.1	46	KLFRITAKGNPLTEKSGVNNKK	Homo sapiens
948	1451	EBV-Induced Gene 2	AAA35924.1	47	KSAPEENSREMTETQM	Homo sapiens
949	1451	EBV-Induced Gene 2	AAA35924.1	48	CKGYKRVVMRLKRRQ	Homo sapiens
950	1486	Endothelin B Receptor	BAA14398.1	54	GEERGFPDRATPLLQTAE	Homo sapiens
951	1486	Endothelin B Receptor	BAA14398.1	55	RLAPAEV/PKGDRTAGSP	Homo sapiens
952	1486	Endothelin B Receptor	BAA14398.1	56	PRTISPPCCQGPPIKE	Homo sapiens
953	1486	Endothelin B Receptor	BAA14398.1	57	EEKQSLEEKQSLKFKAND	Homo sapiens
954	1488	Endothelin A Receptor	AAB25530.1	49	RYSNLSNHVDDFTFRGTE	Homo sapiens
955	1488	Endothelin A Receptor	AAB25530.1	50	NRRNGSLRIALSEHLK	Homo sapiens
956	1488	Endothelin A Receptor	AAB25530.1	51	EYRGEQHKTCMLNATSK	Homo sapiens
957	1488	Endothelin A Receptor	AAB25530.1	53	KNHDQNNHNHNTDRSSHKD	Homo sapiens
958	1598	Calcium-Sensing Receptor (CASR)	P41180	1425	RPQIEKFREEAEERDIC	Homo sapiens
959	1598	Calcium-Sensing Receptor (CASR)	P41180	1426	CHLQEGAKGPLVDTLR	Homo sapiens
960	1598	Calcium-Sensing Receptor (CASR)	P41180	1427	GHEESGDRFNSNSTAFRPLC	Homo sapiens
961	1598	Calcium-Sensing Receptor (CASR)	P41180	1428	KGIIEGEPTCCFECVECPDG	Homo sapiens
962	1598	Calcium-Sensing Receptor (CASR)	P41180	1429	CSTAAHAFKVAARATLRRSN	Homo sapiens
963	1598	Calcium-Sensing Receptor (CASR)	P41180	1430	PQKNAMAHNRNTHQNSLE	Homo sapiens
964	1598	Calcium-Sensing Receptor (CASR)	P41180	1431	RPEVEDPEELSPALWSSSQ	Homo sapiens
965	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1878	ASWGGTPEERLKVATMLTA	Homo sapiens
966	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1879	SEDSAPTINDTAANSAS	Homo sapiens
967	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1880	SYESAGYTVLRILPLWVL	Homo sapiens
968	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	1881	PVFLFLTITIPNGD	Homo sapiens
969	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2612	EERLKVATMLTARGIIRFV	Homo sapiens
970	1676	Formyl Peptide Receptor-Like Receptor	NP_001453.1	2613	ERALSEDSAPTINDTAANSAS	Homo sapiens

971	1681	Like Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	58	QESKVTEIPSDLPRNAIELR	Homo sapiens
972	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	59	DVLEVIEADVFSNLPK	Homo sapiens
973	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	60	RNGHCSSAPRVTSGSTY	Homo sapiens
974	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	AAA52477.1	61	RGQRSSLAEDNESSYRQFD	Homo sapiens
975	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2231	CHHRICHCSNIRVFLCQE	Homo sapiens
976	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2232	LRVIQKGAFSGFDLEK	Homo sapiens
977	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2233	LYVMSILLVNLVAFVVIC	Homo sapiens
978	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2234	CNKSILRQEVDYMTQARGQR	Homo sapiens
979	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2236	SDNNNLEELPNDVFHGA	Homo sapiens
980	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2238	KLVALMEASLTYP SHC	Homo sapiens
981	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2241	SFESVILWLKNKG IQEIHNC	Homo sapiens
982	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2248	IHSLQKVLDDIQDNINIHT	Homo sapiens
983	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2250	KANNLLYTFEAFQNL P	Homo sapiens
984	1681	Follicle Stimulating Hormone Receptor	Follicle Stimulating Hormone Receptor	NP_000136.1	2251	CYEMQAQIYRTIETSTVH	Homo sapiens
985	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1437	TNTPSSRKKMVRVRVVC	Homo sapiens
986	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1439	ARAIASDDQEKHSSRK	Homo sapiens
987	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1440	KYSAKTGLTKLIDASRVSET	Homo sapiens
988	1726	G Protein-Coupled Receptor RDC1	G Protein-Coupled Receptor RDC1	AAA62370.1	1893	PDTYWLKTVTSASNNETYC	Homo sapiens
989	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	192	GNSLVITVLARSKPGKPR	Homo sapiens
990	1762	Galanin Receptor GalR1	Galanin Receptor GalR1	AAA50767.1	193	PRASNQIFCWEQWDPDRHKK	Homo sapiens

991	1762	Galanin Receptor GalR1	AAA50767.1	194	KKLKNMSKSEASKKKTAG	Homo sapiens
992	1762	Galanin Receptor GalR1	AAA50767.1	195	GNSLVITVLARSKP	Homo sapiens
993	1762	Galanin Receptor GalR1	AAA50767.1	196	RKDSHLSDTKENKSRID	Homo sapiens
994	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1250	QTAGELYQRWERYREC	Homo sapiens
995	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1251	CENPEKNEAFDQRULER	Homo sapiens
996	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1253	CRLRSLGEEQRQLPERAFR	Homo sapiens
997	1808	Gastric Inhibitory Polypeptide Receptor	P48546	1276	PTSRGLSSGTLPGPGNEA	Homo sapiens
998	1813	Gastrin-Releasing Peptide Receptor	P30550	829	CNISHSADLPVNDDWSHPG	Homo sapiens
999	1813	Gastrin-Releasing Peptide Receptor	P30550	830	SDLHPFHEESTNQTFISC	Homo sapiens
1000	1813	Gastrin-Releasing Peptide Receptor	P30550	831	YNLPVEGNIHVKKQIES	Homo sapiens
1001	1813	Gastrin-Releasing Peptide Receptor	P30550	832	CQPGLIIRSHSTGRSTT	Homo sapiens
1002	1814	Cholecystokinin B Receptor	Q16144	1281	CEPRIRGAGTRELEAIR	Homo sapiens
1003	1814	Cholecystokinin B Receptor	Q16144	1282	RVRNQGGILPGAVHQNGRC	Homo sapiens
1004	1814	Cholecystokinin B Receptor	Q16144	1283	LRFDGSDSDSQSRVR	Homo sapiens
1005	1814	Cholecystokinin B Receptor	Q16144	1284	CRPETGAVGKDSGDCY	Homo sapiens
1006	1834	Glucagon Receptor	P47871	837	DGLRTRYSQKIGDDL	Homo sapiens
1007	1834	Glucagon Receptor	P47871	838	CGPDGQWVRGPRGQPWRDAS	Homo sapiens
1008	1834	Glucagon Receptor	P47871	839	CQMDGEEIEVQKEVAKMYSS	Homo sapiens
1009	1834	Glucagon Receptor	P47871	840	TSNHRASSSPGHGPPSKE	Homo sapiens
1010	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	206	KLQKWTQKKEKGKLSRMK	Homo sapiens
1011	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	207	DRSLAIRPLALKSNSKVGQ	Homo sapiens
1012	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	208	RMIHLADSSGGQTKVFSQC	Homo sapiens
1013	1925	Gonadotropin-Releasing Hormone Receptor	AAA35917.1	209	DPHELQLNQSKNNIPRARLK	Homo sapiens
1014	1945	Opsin, green-sensitive	NP_000504.1	1746	QRLAGRHPQDSYEDSTQSS	Homo sapiens
1015	1945	Opsin, green-sensitive	NP_000504.1	1747	CKPFGNVRFDKLAIVG	Homo sapiens
1016	1945	Opsin, green-sensitive	NP_000504.1	1748	KTSCGPDVFGSSYPGVQS	Homo sapiens

1017	1945	Opn, green-sensitive	NP_000504.1	1750	CILQLFGKKVDDGSELSS	Homo sapiens
1018	1945	Opn, green-sensitive	NP_000504.1	1767	STRGPEGPNYHIAPR	Homo sapiens
1019	1945	Opn, green-sensitive	NP_000504.1	1768	TNGLVLAATMKFKKLK	Homo sapiens
1020	1945	Opn, green-sensitive	NP_000504.1	1769	ELSSASKTEVSSVSSVSP	Homo sapiens
1021	1951	Growth Hormone	Q92847	581	ADLDWDASPGNDSLGD	Homo sapiens
1022	1951	Secretagogue Receptor	Q92847	582	GVEHENGDPWDITNEC	Homo sapiens
1023	1951	Secretagogue Receptor	Q92847	583	KLWRRRRGDVAVGASL	Homo sapiens
1024	1951	Secretagogue Receptor	Q92847	584	SQRKLTLDSSRAW	Homo sapiens
1025	1954	Secretagogue Receptor	Q02643	833	REDESACLGAAEEMPNTILG	Homo sapiens
1026	1954	Growth Hormone-Releasing	Q02643	834	CPDFFSHFSSES GAVKRD	Homo sapiens
1027	1954	Hormone Receptor	Q02643	835	VRKLEPAQGS LHTQSQ	Homo sapiens
1028	1954	Growth Hormone-Releasing	Q02643	836	RTEISRKWHGHDPPELL	Homo sapiens
1029	2120	Histamine H1 Receptor	P35367	1167	GWNHFMQQTSVRREDKC	Homo sapiens
1030	2120	Histamine H1 Receptor	P35367	1168	CQHRELINRSLPSFSEIKLR	Homo sapiens
1031	2120	Histamine H1 Receptor	P35367	1169	AGGGSVLKSPSQTPKE	Homo sapiens
1032	2120	Histamine H1 Receptor	P35367	1170	KSPVWFSQEDDREVDKLYC	Homo sapiens
1033	2120	Histamine H1 Receptor	P35367	1171	TAPGKGKLRSGSNTGLD	Homo sapiens
1034	2120	Histamine H1 Receptor	P35367	1172	KRLRSHSRQYVSGLHMNRE	Homo sapiens
1035	2121	Histamine H2 Receptor	P25021	1173	NSRNETSKGNHTSKC	Homo sapiens
1036	2121	Histamine H2 Receptor	P25021	1174	CITYYRIFKVARDDQAKR	Homo sapiens
1037	2121	Histamine H2 Receptor	P25021	1175	RDQAKRINHSSWKAA	Homo sapiens
1038	2121	Histamine H2 Receptor	P25021	1176	TAFVVRGLRGDDAINE	Homo sapiens
1039	2121	Histamine H2 Receptor	P25021	1177	HKTSLRNASQLSRITQSRE	Homo sapiens
1040	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	227	DSNGSAGSEDAQLEPA	Homo sapiens
1041	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	228	KVREDVDVIECSLQFPDDD	Homo sapiens
1042	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	229	RNTVQDPAYLRDIDGMNK	Homo sapiens
1043	2783	Opioid Receptor, kappa 1 (OPRK1)	AAA63906.1	230	CFPLKMRMERQSTSRVRN	Homo sapiens

1044	2964	(OPRK1) Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1432	CNTGIRKFPDVTKVFSSES	Homo sapiens
1045	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1433	KMHNGAFRGATGPKTLD	Homo sapiens
1046	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1434	CESTVRKVSNKILYSS	Homo sapiens
1047	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1435	FAVRNPELMATNKDTK	Homo sapiens
1048	2964	Luteinizing Hormone/Choriogonadotro pin Receptor	Q14751	1436	CKRRAELVRRKDFSAVTSN	Homo sapiens
1049	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	210	ERHITVFRMQLTIRMSNRR	Homo sapiens
1050	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	211	RQRTMRMSRSHSGPRNRD	Homo sapiens
1051	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	212	KHLATEWNTVSKLVM	Homo sapiens
1052	2976	Lysophosphatidic Acid Receptor Edg2	AAC51139.1	213	ENPTGPTESSDRSASSLN	Homo sapiens
1053	3038	G Protein-Coupled Receptor MRG	AAB21255.1	184	ESQISLSCSLCHSGDQEAQ	Homo sapiens
1054	3038	G Protein-Coupled Receptor MRG	AAB21255.1	185	QQQKATRVAWVQISAPM	Homo sapiens
1055	3038	G Protein-Coupled Receptor MRG	AAB21255.1	186	DKPEVGRNKKAAAGIDPME	Homo sapiens
1056	3038	G Protein-Coupled Receptor MRG	AAB21255.1	187	EQPHSTGHVENLLPREHRVD	Homo sapiens
1057	3057	Melanocortin 3 Receptor (MC3R)	P41968	451	RLHVKRIAALPPADGVAPQ	Homo sapiens
1058	3057	Melanocortin 3 Receptor (MC3R)	P41968	452	DPLIYAFRSLRLNTRFE	Homo sapiens
1059	3057	Melanocortin 3 Receptor (MC3R)	P41968	562	QAPFFSNQSSSAFCEQVFI	Homo sapiens
1060	3057	Melanocortin 3 Receptor	P41968	563	IVHSDYLTFEDQFIQHMDNI	Homo sapiens

1061	3058	(MC3R)	Melanocortin 4 Receptor	AAB33341.1	1032	HSNASESLGKYSDGGC	Homo sapiens
1062	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1033	KRIAVLPGTGAIRQGA	Homo sapiens
1063	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1035	NSTDIDAQSFVNIDN	Homo sapiens
1064	3058	(MC4R)	Melanocortin 4 Receptor	AAB33341.1	1469	NSTHRGMHTSLHLWNRSSYR	Homo sapiens
1065	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1022	ATEGNLSGPNVKNKSSPC	Homo sapiens
1066	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1024	NKHLVIADAFVRHIDN	Homo sapiens
1067	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1025	MNSSFHILHFLDLNLNAT	Homo sapiens
1068	3059	(MC5R)	Melanocortin 5 Receptor	P33032	1026	RYHHIMTARRSGAIIAG	Homo sapiens
1069	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1036	QGSQRRLLGSLNSTPT	Homo sapiens
1070	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1038	EAGALVARAAVLQQLD	Homo sapiens
1071	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1039	ALRYHSIVTLPRARQA	Homo sapiens
1072	3061	(MC1R)	Melanocortin 1 Receptor	AAD41352.1	1040	CQHAQGIARLHKRQRP	Homo sapiens
1073	3079	Melatonin Receptor type 1a	AAB17720.1	214	HSLKYDKLYSSKNSLC	Homo sapiens	
1074	3079	Melatonin Receptor type 1a	AAB17720.1	215	CTARVFFVDSSNDVADR	Homo sapiens	
1075	3079	Melatonin Receptor type 1a	AAB17720.1	216	QVRQRVKPDRPKLKP	Homo sapiens	
1076	3079	Melatonin Receptor type 1a	AAB17720.1	217	DSSNDVADRVKWKPSPLMTN	Homo sapiens	
1077	3080	Melatonin Receptor type 1b	P49286	930	AVRPGWSGAGSARPSR	Homo sapiens	
1078	3080	Melatonin Receptor type 1b	P49286	931	LVAIFYDGWALGEEHC	Homo sapiens	
1079	3080	Melatonin Receptor type 1b	P49286	932	LVLQARRKAKPESRLC	Homo sapiens	
1080	3080	Melatonin Receptor type 1b	P49286	933	CIQDASKGSHAEGLQSPA	Homo sapiens	
1081	3080	Melatonin Receptor type 1b	P49286	934	QEMAPQIPEGLFVTSY	Homo sapiens	
1082	3081	Melatonin-Related Receptor	Q13585	751	LAARDPAGQNPDNQLAE	Homo sapiens	
1083	3081	Melatonin-Related Receptor	Q13585	752	ARARAHARDQAREQDRAHAC	Homo sapiens	
1084	3081	Melatonin-Related Receptor	Q13585	753	DRASGHPKPHRSSSAY	Homo sapiens	
1085	3081	Melatonin-Related Receptor	Q13585	754	HPKPAAADNPELSASHC	Homo sapiens	

1086	3081	Melatonin-Related Receptor	Q13585	755	DDSDLPEASSPAAAGPT	Homo sapiens
1087	3093	Metabotropic Glutamate Receptor 1	Q13255	879	DDYKIQMNKSGVVRVVC	Homo sapiens
1088	3093	Metabotropic Glutamate Receptor 1	Q13255	880	CRSNITFLNIFRRKKAG	Homo sapiens
1089	3093	Metabotropic Glutamate Receptor 1	Q13255	881	DTSTIKTLNVVEEEDA	Homo sapiens
1090	3093	Metabotropic Glutamate Receptor 1	Q13255	882	ERFKLLGEVVEHERE	Homo sapiens
1091	3094	Metabotropic Glutamate Receptor 2	Q14416	891	DFVRASLSRGADGSRHIC	Homo sapiens
1092	3094	Metabotropic Glutamate Receptor 2	Q14416	892	CVATSEKVGGRAMSRAAFEG	Homo sapiens
1093	3094	Metabotropic Glutamate Receptor 2	Q14416	893	CAAHSLRAVPFEQESK	Homo sapiens
1094	3094	Metabotropic Glutamate Receptor 2	Q14416	894	CDAMRPVNGRRLYKDF	Homo sapiens
1095	3094	Metabotropic Glutamate Receptor 2	Q14416	895	DAPERPADTHNEVRFDR	Homo sapiens
1096	3094	Metabotropic Glutamate Receptor 2	Q14416	896	GKETAPERREVVTLRC	Homo sapiens
1097	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	897	GGLFPINEKGTGTEEC	Homo sapiens
1098	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	898	EFVRASLTKVDEAEVMC	Homo sapiens
1099	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	899	RSNIRKSYDSVIRELL	Homo sapiens
1100	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	900	CDKHLAIDSSNVEQES	Homo sapiens
1101	3095	Metabotropic Glutamate Receptor 3	CAA54796.1	902	GTRRYTLAEKRETVILKC	Homo sapiens
1102	3096	Metabotropic Glutamate Receptor 4	Q14833	909	PSSLGKPKGHPHMNSIRID	Homo sapiens
1103	3096	Metabotropic Glutamate Receptor 4	Q14833	910	CGSGGPPITKPERVVG	Homo sapiens
1104	3096	Metabotropic Glutamate Receptor 4	Q14833	911	CKLSRHALKKGSHVKK	Homo sapiens
1105	3096	Metabotropic Glutamate Receptor 4	Q14833	913	CPRMDPVDGTQLLKYI	Homo sapiens

1106	3096	Metabotropic Glutamate Receptor 4	Q14833	914	RIERMIHWPGSGGQLPRSC	Homo sapiens
1107	3097	Metabotropic Glutamate Receptor 5	P41594	883	KDYFDYINVGSWDNGEL	Homo sapiens
1108	3097	Metabotropic Glutamate Receptor 5	P41594	884	KMDDDEVVWSKSNIIIRVC	Homo sapiens
1109	3097	Metabotropic Glutamate Receptor 5	P41594	885	GETLRYKDRRLAQHKSEIC	Homo sapiens
1110	3097	Metabotropic Glutamate Receptor 5	P41594	886	NPNQTAVIKPFPKSTE	Homo sapiens
1111	3097	Metabotropic Glutamate Receptor 5	P41594	887	KALYDVAEAEHFPAPA	Homo sapiens
1112	3097	Metabotropic Glutamate Receptor 5	P41594	888	RSPSPISLISHRAGSASRTD	Homo sapiens
1113	3097	Metabotropic Glutamate Receptor 5	P41594	889	RESPAAGPEAAAAKPD	Homo sapiens
1114	3098	Metabotropic Glutamate Receptor 6	O15303	903	QALIRGRGDGDEVGVRC	Homo sapiens
1115	3098	Metabotropic Glutamate Receptor 6	O15303	904	KLTSSGTQSDSDTRKC	Homo sapiens
1116	3098	Metabotropic Glutamate Receptor 6	O15303	905	DVEALQWSDGPHEVPSSLC	Homo sapiens
1117	3098	Metabotropic Glutamate Receptor 6	O15303	906	RFQVDEFTCEACPGDM	Homo sapiens
1118	3098	Metabotropic Glutamate Receptor 6	O15303	907	GARPPHSVIDYEEQRT	Homo sapiens
1119	3099	Metabotropic Glutamate Receptor 7	Q14831	917	CIAGSVRIPQERKDRITDFD	Homo sapiens
1120	3099	Metabotropic Glutamate Receptor 7	Q14831	918	NDEDIKQILAAAKRAD	Homo sapiens
1121	3099	Metabotropic Glutamate Receptor 7	Q14831	921	NIEDMQWGKGVREIPASVC	Homo sapiens
1122	3099	Metabotropic Glutamate Receptor 7	Q14831	2693	IKQLLDTPNRAVVI	Homo sapiens
1123	3099	Metabotropic Glutamate Receptor 7	Q14831	2694	DPPNIIDYDEHKTIM	Homo sapiens
1124	3100	Metabotropic Glutamate Receptor 8	O00222	922	CANGDPPIFTKPKIS	Homo sapiens
1125	3100	Metabotropic Glutamate	O00222	923	CPRMSTIDGKELLYIRA	Homo sapiens

1126	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	924	KVEDMQWAHRETHPASVC	Homo sapiens
1127	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	925	CESLENTSTTKTYISYS	Homo sapiens
1128	3100	Receptor 8	Metabotropic Glutamate Receptor 8	O00222	1894	KFYWILTMQRTHSQEYAH	Homo sapiens
1129	3212	Opioid mu-type Receptor	Opioid mu-type Receptor	AAA20580.1	231	DGNLSDPCGPNRTNLGGRDS	Homo sapiens
1130	3212	Opioid mu-type Receptor	Opioid mu-type Receptor	AAA20580.1	232	DRTNHQLENLEAETAPLP	Homo sapiens
1131	3212	Opioid mu-type Receptor	Opioid mu-type Receptor	AAA20580.1	233	IKALVTIPETTFQTVS	Homo sapiens
1132	3212	Opioid mu-type Receptor	Opioid mu-type Receptor	AAA20580.1	234	RIRQNTRDHPSTANTVDR	Homo sapiens
1133	3223	Muscarinic acetylcholine Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1325	SERSQPGAEGSPETPPGRC	Homo sapiens
1134	3223	Muscarinic acetylcholine Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1326	CRAPRLLQAYSWKKEE	Homo sapiens
1135	3223	Muscarinic acetylcholine Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1327	SSEGEPPGSEVVIKMP	Homo sapiens
1136	3223	Muscarinic acetylcholine Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1328	KQPPRSSPNTVKRPTKGRD	Homo sapiens
1137	3223	Muscarinic acetylcholine Receptor M1	Muscarinic acetylcholine Receptor M1	AAA35686.1	1329	CRWDKRRWRKIPKRPGS	Homo sapiens
1138	3224	Muscarinic acetylcholine Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1330	EHNKIQNGKAPRDPVTENC	Homo sapiens
1139	3224	Muscarinic acetylcholine Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1331	DSTSVSAVASNMIRDDE	Homo sapiens
1140	3224	Muscarinic acetylcholine Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1332	ENTVSTSLGHSKDENSEKQTC	Homo sapiens
1141	3224	Muscarinic acetylcholine Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1333	DEKQNVIVARKIVKMTK	Homo sapiens
1142	3224	Muscarinic acetylcholine Receptor M2	Muscarinic acetylcholine Receptor M2	AAA51570.1	1831	RIKKDKKEPVANQDPVPSL	Homo sapiens
1143	3226	Muscarinic acetylcholine Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	218	SRSRVHKHRPEGPKEKKA	Homo sapiens
1144	3226	Muscarinic acetylcholine Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	219	KKPRPGGRPGGURNGKLEEA	Homo sapiens
1145	3226	Muscarinic acetylcholine Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	220	DKDTSNESSGSATQNTKER	Homo sapiens
1146	3226	Muscarinic acetylcholine Receptor M4	Muscarinic acetylcholine Receptor M4	AAA51571.1	221	RPAANVARKEFASIRNQVRK	Homo sapiens

1147	3227	Muscarinic Acetylcholine Receptor M5	P08912	1334	KAEKRKPAHRALEFSC	Homo sapiens
1148	3227	Muscarinic Acetylcholine Receptor M5	P08912	1335	CSSYPSEDEDKPAID	Homo sapiens
1149	3227	Muscarinic Acetylcholine Receptor M5	P08912	1336	KESPGEEFSAETEETIV	Homo sapiens
1150	3227	Muscarinic Acetylcholine Receptor M5	P08912	1337	KFRLVVKADGNQETINNGC	Homo sapiens
1151	3227	Muscarinic Acetylcholine Receptor M5	P08912	1338	KEPSTKGLNPNPSHQIM	Homo sapiens
1152	3378	Tachykinin Receptor 3	NP_001050.1	1757	PAAETWIDGGGVGAD	Homo sapiens
1153	3378	Tachykinin Receptor 3	NP_001050.1	1759	PSQPWANLTNQFVQPSWR	Homo sapiens
1154	3378	Tachykinin Receptor 3	NP_001050.1	1760	SRKKRATPRDPSFNGC	Homo sapiens
1155	3378	Tachykinin Receptor 3	NP_001050.1	2265	ADAVNLTAASLAAGAA	Homo sapiens
1156	3378	Tachykinin Receptor 3	NP_001050.1	2290	SPSALGLPVASAPSQP	Homo sapiens
1157	3380	Neuromedin B Receptor	P28336	824	ERDFLPASDGTTELIVRC	Homo sapiens
1158	3380	Neuromedin B Receptor	P28336	825	KTUKSAHNLPGEYNE	Homo sapiens
1159	3380	Neuromedin B Receptor	P28336	826	SEVARISSLDNSSFTAC	Homo sapiens
1160	3380	Neuromedin B Receptor	P28336	828	CGRKSYQERGTSYLLSSA	Homo sapiens
1161	3404	Neuropeptide Y Receptor Type 2	P49146	1057	RGELVPDPELIDST	Homo sapiens
1162	3404	Neuropeptide Y Receptor Type 2	P49146	1058	CIVYHLESKISKRISF	Homo sapiens
1163	3404	Neuropeptide Y Receptor Type 2	P49146	1059	REYSUEIIPDFEIVAC	Homo sapiens
1164	3404	Neuropeptide Y Receptor Type 2	P49146	1060	NDHYHQRRQKTKMLVC	Homo sapiens
1165	3404	Neuropeptide Y Receptor Type 2	P49146	1061	CEQRILDAIHSEVSVTFKAKK	Homo sapiens
1166	3404	Neuropeptide Y Receptor Type 2	P49146	2297	MGPIGAEADENQTV EEMKVE	Homo sapiens
1167	3404	Neuropeptide Y Receptor Type 2	P49146	2298	SEVSVTFKAKKNLEVRKNSG	Homo sapiens
1168	3405	Neuropeptide Y Receptor Type 4	P50391	1068	CVTVRQKEKANVTNLL	Homo sapiens
1169	3405	Neuropeptide Y Receptor Type 4	P50391	1069	KNHSALEFLADKVC	Homo sapiens
1170	3405	Neuropeptide Y Receptor Type 4	P50391	1070	CYARIYRRLQRQGRVFKG	Homo sapiens

1171	3405	Type 4 Neuropeptide Y Receptor	P50391	1071	CQQSAPLEESEHLPLST	Homo sapiens
1172	3405	Type 4 Neuropeptide Y Receptor	P50391	2275	SEHCQDSVDVMVFVTS	Homo sapiens
1173	3406	Type 4 Neuropeptide Y Receptor	Q15761	1072	MKKRNQKTTVNFUGN	Homo sapiens
1174	3406	Type 5 Neuropeptide Y Receptor	Q15761	1073	CGLSNKENRLEENEMI	Homo sapiens
1175	3406	Type 5 Neuropeptide Y Receptor	Q15761	1074	NLILHPSKSGPQVKL	Homo sapiens
1176	3406	Type 5 Neuropeptide Y Receptor	Q15761	1075	SFIKKHRRRYSKKTAC	Homo sapiens
1177	3406	Type 5 Neuropeptide Y Receptor	Q15761	1076	PERPSQENHSLRPEN	Homo sapiens
1178	3406	Type 5 Neuropeptide Y Receptor	Q15761	1077	CFEIKPEENS DVHELRV	Homo sapiens
1179	3408	Neurotensin Receptor Type 1	P30989	935	RVLAAPSSSELDVNTDIYS	Homo sapiens
1180	3408	Neurotensin Receptor Type 1	P30989	936	CHPFKAKTLMRSRTKK	Homo sapiens
1181	3408	Neurotensin Receptor Type 1	P30989	937	GEQNRSDGQHAGGLVC	Homo sapiens
1182	3408	Neurotensin Receptor Type 1	P30989	938	RQAAEQGQVCTVGGHVS	Homo sapiens
1183	3408	Neurotensin Receptor Type 1	P30989	939	CPVWRRRRKRP AFSRKADS	Homo sapiens
1184	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	940	CHPIRALDVRTSSKAQA	Homo sapiens
1185	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	941	PVAIMGSAQVEDEEIEC	Homo sapiens
1186	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	942	GVQPSSETAVAILRFC	Homo sapiens
1187	3452	Opiate Receptor-Like 1 (OPRL1)	P41146	943	CASALRRDVQVSDRVSIAK	Homo sapiens
1188	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2123	TPEPRPRTQPMASPRLGTFC	Homo sapiens
1189	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2124	TAVASLLKGRGGIYE	Homo sapiens

1190	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2125	EMQTDINGGSLKPVRTAAK	Homo sapiens
1191	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2126	CSLGFQSPRKEIQWES	Homo sapiens
1192	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2127	SEGSDASTIEHTASESC	Homo sapiens
1193	3513	Ocular Albinism 1 (Nettleship-Falls) (OA1)	NP_000264.1	2128	NPASGKV/SQV/GGQTS	Homo sapiens
1194	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1486	CKKLHIPLKAGNDLDIRIK	Homo sapiens
1195	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1500	KIVKPLWTSFIQSVSYSKLL	Homo sapiens
1196	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1502	TAITKKIFKSHLKSSRNSTS	Homo sapiens
1197	3544	UDP-glucose Receptor (KIAA0001)	NP_055694.1	1503	VKKKSSRNIFSIVFVFFVC	Homo sapiens
1198	3582	Oxytocin Receptor	CAA46097.1	244	AEGNRTAGPPRRNEALARVE	Homo sapiens
1199	3582	Oxytocin Receptor	CAA46097.1	245	RLAVLATWLGCLVASAP	Homo sapiens
1200	3582	Oxytocin Receptor	CAA46097.1	246	PEGAAAGDGGRVALAR	Homo sapiens
1201	3582	Oxytocin Receptor	CAA46097.1	247	YLGRRRLGETSASKNSSS	Homo sapiens
1202	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	854	MQRIGDVLGSSEDFRR	Homo sapiens
1203	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	855	ARGGRVTCCHDTSAPEL	Homo sapiens
1204	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	856	KPAYGTSGGILPRAKRK	Homo sapiens
1205	3589	Purinergic Receptor P2Y, G- protein coupled, 2 (P2RY2)	AAC04923.1	857	TGSPATPARRRLGLRRSD	Homo sapiens
1206	3595	Purinergic Receptor P2Y1	CAA07339.1	386	RYSGVVVPLKSLGRLKKKN	Homo sapiens
1207	3595	Purinergic Receptor P2Y1	CAA07339.1	387	SGTGVRKNKITCYD	Homo sapiens
1208	3595	Purinergic Receptor P2Y1	CAA07339.1	388	RALVYKDLNLSPLRKS	Homo sapiens
1209	3595	Purinergic Receptor P2Y1	CAA07339.1	389	DTFRRRLSRATRKASRSE	Homo sapiens
1210	3596	Purinergic Receptor P2Y5	P43657	850	FVQSTHSQGNNAEAC	Homo sapiens
1211	3596	Purinergic Receptor P2Y5	P43657	851	MVLKTLTKPVTLRSKI	Homo sapiens
1212	3596	Purinergic Receptor P2Y5	P43657	852	TIQNSIKMKNNWSVRRSD	Homo sapiens
1213	3596	Purinergic Receptor P2Y5	P43657	853	SEVHGAENFIQHNLQTLK	Homo sapiens
1214	3597	Purinergic Receptor P2Y6	Q15077	874	CTSRRLTRTAVYTLN	Homo sapiens
1215	3597	Purinergic Receptor P2Y6	Q15077	875	AQERRGKAARMAVVV	Homo sapiens

1216	3597	Purinergic Receptor P2Y6	Q15077	876	TKTAYLAVRSTPGVPC	Homo sapiens
1217	3597	Purinergic Receptor P2Y6	Q15077	877	KKFRRPHELLQKLIATK	Homo sapiens
1218	3597	Purinergic Receptor P2Y6	Q15077	2726	CHPLAPWHKRGGRRAAW	Homo sapiens
1219	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	870	CFRMKMRSETAIFITN	Homo sapiens
1220	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	871	RTLKRPATLSQIGTNKK	Homo sapiens
1221	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	872	ESFQKSFYINAHIRMES	Homo sapiens
1222	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	873	KTEIPLTIKPSLPAIQEE	Homo sapiens
1223	3599	G Protein-Coupled Receptor 23 (GPR23)	Q99677	1895	SSLRPRLGNATANINTCIVD	Homo sapiens
1224	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	248	KAKVQCELNITAGLQEGE	Homo sapiens
1225	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	249	ESUMQDDPQNSIEATSVDK	Homo sapiens
1226	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	250	NSEQDCLPHSFHEETKE	Homo sapiens
1227	3638	Parathyroid Hormone Receptor 2 (PTHr2)	AAC50157.1	251	EETKEDSGRQGGDILMEKPS	Homo sapiens
1228	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	761	CEKRLKEVLQRPASIMESDK	Homo sapiens
1229	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	762	ESEEDKEAPTGSRYRGRPC	Homo sapiens
1230	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	763	LYSGATLDEAERLIEEELR	Homo sapiens
1231	3640	Parathyroid Hormone Receptor 1 (PTHr1)	Q03431	765	KDDGFLNGSCSGILDEEASG	Homo sapiens
1232	3732	PACAP Receptor Type 1	P41586	944	CLEKIQRANELMGFNDSS	Homo sapiens
1233	3732	PACAP Receptor Type 1	P41586	945	CPELFRFNPDQVWETET	Homo sapiens
1234	3732	PACAP Receptor Type 1	P41586	946	DSNSLDSDMGVWSRNC	Homo sapiens
1235	3732	PACAP Receptor Type 1	P41586	948	IKRKWRSWKVNRIFYAVD	Homo sapiens
1236	3732	PACAP Receptor Type 1	P41586	2292	ESDFGDSNSLDSDMGVWSR	Homo sapiens
1237	3844	Apelin Receptor	AAA18954.1	62	RTTGDLENTIKVQC	Homo sapiens
1238	3844	Apelin Receptor	AAA18954.1	63	RSSREKRRSADIFIAS	Homo sapiens
1239	3844	Apelin Receptor	AAA18954.1	64	QTIAGHFRKERIEGLRKRRR	Homo sapiens
1240	3844	Apelin Receptor	AAA18954.1	65	GPNIMGKGGEQMHEKSPYSQ	Homo sapiens

1241	3845	Chemokine-Like Receptor 1 (CMKLR1)	LR39	447	RMEDEDYNTSISYGDEYPD	Homo sapiens
1242	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	448	DSIVVLEDLSPLEARVTR	Homo sapiens
1243	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	449	LTIVCKLHRNRLAKTKKPFK	Homo sapiens
1244	3845	Chemokine-Like Receptor 1 (CMKLR1)	Q99788	450	RSFTKMSSMNERTSMNERE	Homo sapiens
1245	3846	Spingolipid Receptor Edg1	AAA52336.1	1010	TRSRRLTRKNISKASRSSE	Homo sapiens
1246	3846	Spingolipid Receptor Edg1	AAA52336.1	1011	CPSGDSAGKFKRPIIAG	Homo sapiens
1247	3846	Spingolipid Receptor Edg1	AAA52336.1	1012	CPSGDSAGKFKRPIIAGME	Homo sapiens
1248	3846	Spingolipid Receptor Edg1	AAA52336.1	1013	RKSDNSSHPQKDEGD	Homo sapiens
1249	3847	Spingolipid Receptor Edg3	Q99500	1028	ERHLTMIKMRPYDANK	Homo sapiens
1250	3847	Spingolipid Receptor Edg3	Q99500	1029	LVKSSSRKVANHNNSE	Homo sapiens
1251	3847	Spingolipid Receptor Edg3	Q99500	1030	SPKVKEDELPHIDPSSC	Homo sapiens
1252	3847	Spingolipid Receptor Edg3	Q99500	1031	CLVRGRGARASPIQPALD	Homo sapiens
1253	3847	Spingolipid Receptor Edg3	Q99500	1752	REHYQVVGKLAGRLKEASE	Homo sapiens
1254	3848	C-C Chemokine Receptor 9	P51686	958	RAHTWREKRLLYSKMVC	Homo sapiens
1255	3848	C-C Chemokine Receptor 9	P51686	959	KEESGIAICTMVVPSDEST	Homo sapiens
1256	3848	C-C Chemokine Receptor 9	P51686	960	QAKSSKHALKVTIT	Homo sapiens
1257	3848	C-C Chemokine Receptor 9	P51686	961	GERFRDLVKTILNLC	Homo sapiens
1258	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	74	ENYSYDLVYVSLESDLEEK	Homo sapiens
1259	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	75	RDTVEFNHTLCYNNFQKHD	Homo sapiens
1260	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	76	SKKFQARFRSSVAEILK	Homo sapiens
1261	3849	G Protein-Coupled Receptor GPR1	AAA64592.1	77	GTVSEQLRNSETKNLC	Homo sapiens
1262	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1087	HPLRRRISLRLSAYAV	Homo sapiens
1263	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1088	CEEFWGSQERQRQLYA	Homo sapiens
1264	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1089	SYVRVSVKLRNRVWPGC	Homo sapiens
1265	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1090	CVTGSQADWDRARRRR	Homo sapiens
1266	3850	G Protein-Coupled Receptor 10 (GPR10)	O75194	1091	DSFREELRKLVAWPRKIA	Homo sapiens

1267	3851	Receptor 10 (GPR10) G Protein-Coupled Receptor GPR12	AAA91630.1	78	GCI PSSLAQRARSPD	Homo sapiens
1268	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	79	ENISA AAVSSRVP AVEPEPE	Homo sapiens
1269	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	307	STCSVVRPLTKNNAA	Homo sapiens
1270	3851	G Protein-Coupled Receptor GPR12	AAA91630.1	308	QSEATKLVTIGLIVAS	Homo sapiens
1271	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	84	KQKENECLGDYPEVLQE	Homo sapiens
1272	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	85	SMNNRTVQHGVTISL	Homo sapiens
1273	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	86	ETLKLYDFFPSCDMRKDLR	Homo sapiens
1274	3852	CX3C Chemokine Fractalkine Receptor 1	AAA91783.1	87	GRSVHVDFSSSESQSRPHGS	Homo sapiens
1275	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1511	CLKNYDFGSSTETSDSHLTK	Homo sapiens
1276	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1512	KALSTFIHAEDFARRRKRS	Homo sapiens
1277	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1612	ATSPNSDIRETHSHVP	Homo sapiens
1278	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1613	LMGALHFKPGSRRUD	Homo sapiens
1279	3853	G Protein-Coupled Receptor GPR15	NP_005281.1	1615	GLPTLLSRELTLDDKPYC	Homo sapiens
1280	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	93	DRYMAIVQPKYAKELKNTC	Homo sapiens
1281	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	94	KDPDKDSTPATCLKISD	Homo sapiens
1282	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	95	GRTSKLKPVKESIR	Homo sapiens
1283	3854	G Protein-Coupled Receptor GPR18	AAB65819.1	96	RNYLPSLRKRSFRSGSLR	Homo sapiens
1284	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	97	KVSREKAKKMAIASWIFD	Homo sapiens
1285	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	98	DGRTVRRITMNIIVPTKVK	Homo sapiens

1286	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	99	RRGMKETFCMSSMKC	Homo sapiens
1287	3855	G Protein-Coupled Receptor GPR19	AAB00316.1	100	KTITKDSIYDSFDREAEEKK	Homo sapiens
1288	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1152	ALLFSQDGGQREGQRRC	Homo sapiens
1289	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1153	SGDEEDAYSAPLPELC	Homo sapiens
1290	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1154	ALLDTADLLAARERSC	Homo sapiens
1291	3856	G Protein-Coupled Receptor GPR2/CCR10	P46092	1155	RRLRGSSSPGPQPRRGC	Homo sapiens
1292	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	101	KGSGRHHLSAGPHALTQ	Homo sapiens
1293	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	102	RTNASGLEVPLFHLFARLDE	Homo sapiens
1294	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	103	SRPGLLHQGRQRVRAMQ	Homo sapiens
1295	3857	G Protein-Coupled Receptor GPR20	AAC51302.1	104	GQHGGERPSSGDVVSIMHRSS	Homo sapiens
1296	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	105	SERQARFSSQSGETGEVQAC	Homo sapiens
1297	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	106	DPYTVRSKGPLNGC	Homo sapiens
1298	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	107	NSTLDGNQSSHPFCLL	Homo sapiens
1299	3858	G Protein-Coupled Receptor GPR21	AAC51303.1	108	CASQTTANDPYTVRSK	Homo sapiens
1300	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	109	EINMQSESNIIVRDDIDD	Homo sapiens
1301	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	111	RRAVKRHRERRERQKRVFRM	Homo sapiens
1302	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	112	TRQKFQKVLKSKMKKR	Homo sapiens
1303	3859	G Protein-Coupled Receptor GPR22	AAC51304.1	113	DPKRNKKITFEDSEIREKR	Homo sapiens
1304	3860	G Protein-Coupled Receptor SLC/MCH1	AAH01736.1	1532	CAPGGGRRRWRLQPAWVEG	Homo sapiens
1305	3860	G Protein-Coupled	AAH01736.1	1533	EASLLPTGPNASNTSDGPDN	Homo sapiens

1306	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1539	KGVGRAVGLGGSGCQATE	Homo sapiens
1307	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1565	RMTSSVAPASQSRIRLTKR	Homo sapiens
1308	3860	Receptor SLC/MCH1 G Protein-Coupled	AAH01736.1	1567	RAVSNAGTAEERTESKG	Homo sapiens
1309	3861	Receptor SLC/MCH1 G Protein-Coupled	O00155	376	RGLQLPGGQDSQCCEEP	Homo sapiens
1310	3861	Receptor GPR25 G Protein-Coupled	O00155	377	CRISRLRRPPHVGRARRNS	Homo sapiens
1311	3861	Receptor GPR25 G Protein-Coupled	O00155	378	RTGRLARRISSASSLRDD	Homo sapiens
1312	3861	Receptor GPR25 G Protein-Coupled	O00155	483	DYSGLDGLELELCPAGD	Homo sapiens
1313	3862	Receptor GPR25 G Protein-Coupled	AAB60402.1	118	TVYCLLGDAHSPLYT	Homo sapiens
1314	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	119	EGPTGPAAPLPSPKAWD	Homo sapiens
1315	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	120	HFAAVFCIGSAEMSL	Homo sapiens
1316	3862	Receptor GPR3 G Protein-Coupled	AAB60402.1	121	GLITCGVVYPLSKNH	Homo sapiens
1317	3863	Receptor GPR3 G Protein-Coupled	O00270	1157	REPEKQPKLQRAQALVTLV	Homo sapiens
1318	3863	Receptor GPR31 G Protein-Coupled	O00270	1158	CHSFYSRADGFSFIWQEA	Homo sapiens
1319	3863	Receptor GPR31 G Protein-Coupled	O00270	1159	QNLGSCRALCAVAHTSDVTG	Homo sapiens
1320	3863	Receptor GPR31 G Protein-Coupled	O00270	1160	SPTRSSVRRVFHTLRGKGQ	Homo sapiens
1321	3864	Receptor GPR31 G Protein-Coupled	AAA98457.1	143	DELFRDRYNHTFCFEKFPME	Homo sapiens
1322	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	144	LRAVRGSVSTERQEAKIKR	Homo sapiens
1323	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	145	RSDVAKALHNLRLFLASDK	Homo sapiens
1324	3864	Receptor GPR4 G Protein-Coupled	AAA98457.1	146	NASLTLEPLTSKRNSTAK	Homo sapiens

1325	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	166	FQYLPSETVSLITVG	Homo sapiens
1326	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	167	CLAERAACSVVRPLARSH	Homo sapiens
1327	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	168	HLVVRICQVVWRHAH	Homo sapiens
1328	3866	G Protein-Coupled Receptor GPR6	AAA91631.1	169	EIQRALWLLCGCFQSK	Homo sapiens
1329	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	171	ATAESRRVAGRTYSAAR	Homo sapiens
1330	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	172	RLDDEQGRRQCVLVFPQPE	Homo sapiens
1331	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	173	RLHAMRLDSHAKALERAKKR	Homo sapiens
1332	3867	G Protein-Coupled Receptor GPR7	AAC50197.1	174	DASFRRLRLQLITC	Homo sapiens
1333	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	175	NVSDQDNGTGHINATFSEP	Homo sapiens
1334	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	176	RSRHMPWRTYRGAKVAS	Homo sapiens
1335	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	177	VLRSQAKALGKARRK	Homo sapiens
1336	3868	G Protein-Coupled Receptor GPR8	AAC50198.1	178	LDNFRKNFRSILRC	Homo sapiens
1337	3869	G Protein-Coupled Receptor HM74	BAA01721.1	179	QDHFLEIDKKNCCVFRDD	Homo sapiens
1338	3869	G Protein-Coupled Receptor HM74	BAA01721.1	180	ARIWSLRQRQMDRHAQIKR	Homo sapiens
1339	3869	G Protein-Coupled Receptor HM74	BAA01721.1	181	CLQRKMTGEPDNNRSTSV	Homo sapiens
1340	3869	G Protein-Coupled Receptor HM74	BAA01721.1	182	DPNKTGGAPEALMANSGE	Homo sapiens
1341	3869	G Protein-Coupled Receptor HM74	BAA01721.1	183	SNNHKKGHCHQEPASLEKQ	Homo sapiens
1342	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1453	RQRQMDRHAQIKRAITFIMV	Homo sapiens
1343	3869	G Protein-Coupled Receptor HM74	BAA01721.1	1454	SPSYLGPTSNNHKKKG	Homo sapiens
1344	3870	G Protein-Coupled	Q15743	1192	AVRRSHGTQSKRKDQI	Homo sapiens

1345	3870	Receptor OGR1	Q15743	1193	LMHEEVIEDENQHRVC	Homo sapiens
1346	3870	G Protein-Coupled Receptor OGR1	Q15743	1194	CFVSETHRDILRLRG	Homo sapiens
1347	3870	G Protein-Coupled Receptor OGR1	Q15743	1195	CSRTGRAREAYPLGAPEASG	Homo sapiens
1348	3921	Prostacyclin Receptor	P43119	1188	CRMVRQQKRHQGSLGPRPRT	Homo sapiens
1349	3921	Prostacyclin Receptor	P43119	1189	CFTQAVAPDSSEMIGD	Homo sapiens
1350	3921	Prostacyclin Receptor	P43119	1190	ASGRRDPRAPSAPVGKEGSC	Homo sapiens
1351	3921	Prostacyclin Receptor	P43119	1191	SAWGEQGVPLPPTQQ	Homo sapiens
1352	3923	Prostaglandin D2 Receptor	Q13258	458	KSPFYRCQNTTSVEKGN SAV	Homo sapiens
1353	3923	Prostaglandin D2 Receptor	Q13258	459	RNLYAMHRRILQRHPRSC	Homo sapiens
1354	3923	Prostaglandin D2 Receptor	Q13258	503	CAEPRADGREASQP LEEEL	Homo sapiens
1355	3923	Prostaglandin D2 Receptor	Q13258	504	KDVKEKNRTSEEAEDLRALR	Homo sapiens
1356	3924	Prostaglandin E Receptor EP1	P34995	962	AQAAGRLRRRSATTF	Homo sapiens
1357	3924	Prostaglandin E Receptor EP1	P34995	963	CVGVTRPLLHAARVSVARAR	Homo sapiens
1358	3924	Prostaglandin E Receptor EP1	P34995	964	CNTLSGLALHRARWRR	Homo sapiens
1359	3924	Prostaglandin E Receptor EP1	P34995	965	ASGPDSSRRRWGAHGPR	Homo sapiens
1360	3924	Prostaglandin E Receptor EP1	P34995	966	SGSARRARAHDEV MVGQ	Homo sapiens
1361	3925	Prostaglandin E Receptor EP2	AAD44177.1	967	IALALLARRWRG D VGC	Homo sapiens
1362	3925	Prostaglandin E Receptor EP2	AAD44177.1	968	CETRQWLP PGESPAISSV	Homo sapiens
1363	3925	Prostaglandin E Receptor EP2	AAD44177.1	969	GPSLGSGRGGPGARRRGE	Homo sapiens
1364	3925	Prostaglandin E Receptor EP2	AAD44177.1	971	NETSSRKEKWD LQALR	Homo sapiens
1365	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	972	ERSAEARGNLTRPPGSGEDC	Homo sapiens
1366	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	973	SRSYRRRESKRKKSFLLC	Homo sapiens
1367	3926	Prostaglandin E2 Receptor EP3	CAB52459.1	974	CRAKATASQSSAQWGR	Homo sapiens

1368	3926	EP3	Prostaglandin E2 Receptor EP3	CAB52459.1	975	KFCQVANAVSSCSNDGQ	Homo sapiens
1369	3927	EP3	Prostaglandin E Receptor EP4	P35408	382	RLSDFRRRRSFRRIAGAE	Homo sapiens
1370	3927	EP4	Prostaglandin E Receptor EP4	P35408	383	EREVSKNPDLQAIRIAS	Homo sapiens
1371	3927	EP4	Prostaglandin E Receptor EP4	P35408	384	DSQRTSSAMSGHSRFSISRE	Homo sapiens
1372	3927	EP4	Prostaglandin E Receptor EP4	P35408	385	RTLRISETSDSSQGQDSE	Homo sapiens
1373	3928	Receptor	Prostaglandin F2-alpha Receptor	P43088	1046	ILMKAYQRRFRQKSKAS	Homo sapiens
1374	3928	Receptor	Prostaglandin F2-alpha Receptor	P43088	1047	ASDKEWIRFDQSNVLC	Homo sapiens
1375	3928	Receptor	Prostaglandin F2-alpha Receptor	P43088	1048	TKPIFHSTKITSKHVK	Homo sapiens
1376	3928	Receptor	Prostaglandin F2-alpha Receptor	P43088	1049	CFYNTEIDKDWEDRFY	Homo sapiens
1377	3928	Receptor	Prostaglandin F2-alpha Receptor	P43088	1050	RVKFKSQQHRQGRSHLE	Homo sapiens
1378	4051	Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	252	QGTNRSSKGRSLUGKVDGTS	Homo sapiens
1379	4051	Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	253	QRYWVIVNPMGHSRKKAN	Homo sapiens
1380	4051	Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	255	SHDFRDHAKNALLCRSVR	Homo sapiens
1381	4051	Receptor 2	Proteinase-Activated Receptor 2	AAB47871.1	256	VSLTKKHSRKSSSYS	Homo sapiens
1382	4052	Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	257	ENDTNNLAKPTLPKTFR	Homo sapiens
1383	4052	Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	258	CPEESASHLHVKNATMG	Homo sapiens
1384	4052	Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	260	QPDITTCVDVHNTCESSSP	Homo sapiens
1385	4052	Receptor 3	Proteinase-Activated Receptor 3	AAC51218.1	261	MSKTRNHSTAYLTK	Homo sapiens
1386	4090	G Protein-Coupled Receptor GPR17		CAB08108.1	88	RDHKSGTIPANVFLMH	Homo sapiens

1387	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	90	RSLRQGLRVEKRLTKAVR	Homo sapiens
1388	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	91	RSHGASCATQIRILALANR	Homo sapiens
1389	4090	G Protein-Coupled Receptor GPR17	CAB08108.1	92	FEGKTNESSLSAKSE	Homo sapiens
1390	4254	Rhodopsin	P08100	1051	RNCMLTICCGKNPLGD	Homo sapiens
1391	4254	Rhodopsin	P08100	1052	CGIDYYTLKPEVNNEFVI	Homo sapiens
1392	4254	Rhodopsin	P08100	1053	CWVPYASVAFYIFTHQGSN	Homo sapiens
1393	4254	Rhodopsin	P08100	1055	VLGGFTSLYLSLHG	Homo sapiens
1394	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1042	ATSSLLRRWPYGSDDGC	Homo sapiens
1395	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1043	CTLDYSKGDNRNFTSFL	Homo sapiens
1396	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1044	MEQKLGKSGHLQVNTT	Homo sapiens
1397	4284	Retinal G Protein-Coupled Receptor RPE	P47804	1045	MVCRGIWQCLSPQKRE	Homo sapiens
1398	4321	Secretin Receptor	P47872	950	CLQELSREQTGLGTEQ	Homo sapiens
1399	4321	Secretin Receptor	P47872	951	CPRFLRLMLTSRNGSLFRN	Homo sapiens
1400	4321	Secretin Receptor	P47872	952	CGVNVNDSSNEKRHSY	Homo sapiens
1401	4321	Secretin Receptor	P47872	954	KDAVLFSSDDVTYCDAAH	Homo sapiens
1402	4321	Secretin Receptor	P47872	956	MIRKLRTGETRGNVESH	Homo sapiens
1403	4480	Somatostatin Receptor Type 1	P30872	994	EEPGRNASQNGTLSEG	Homo sapiens
1404	4480	Somatostatin Receptor Type 1	P30872	996	CLSWMDNAAEEPVDY	Homo sapiens
1405	4480	Somatostatin Receptor Type 1	P30872	997	EDFQPENLESGGVFRNGTC	Homo sapiens
1406	4480	Somatostatin Receptor Type 1	P30872	2616	LSVDAVNMFTSIYC	Homo sapiens
1407	4480	Somatostatin Receptor Type 1	P30872	2618	RAYSVEDFQPENLES	Homo sapiens
1408	4481	Somatostatin Receptor Type 2	P30874	998	RSNQWGRSSCTINWPGE	Homo sapiens
1409	4481	Somatostatin Receptor Type 2	P30874	999	KVKSSGIRVGSSKRKKSE	Homo sapiens
1410	4481	Somatostatin Receptor Type 2	P30874	1000	CLVKVSGTDDGERSDS	Homo sapiens

1411	4481	2	Somatostatin Receptor Type 3	P30874	1001	KQDKSRLNETTETQRT	Homo sapiens
1412	4481	2	Somatostatin Receptor Type 3	P30874	2276	DMADEPLNGSHTWLSIP	Homo sapiens
1413	4482	3	Somatostatin Receptor Type 3	P32745	1002	KVRSAGRRVWAPSCQR	Homo sapiens
1414	4482	3	Somatostatin Receptor Type 3	P32745	2622	REGGKGKEMINGRVSQI	Homo sapiens
1415	4482	3	Somatostatin Receptor Type 3	P32745	2624	TTSEPENASSAWPPD	Homo sapiens
1416	4482	3	Somatostatin Receptor Type 3	P32745	2626	QPGTSGQERPPSRVA	Homo sapiens
1417	4483	4	Somatostatin Receptor Type 4	P31391	1007	IFADTRPARGGQAVAC	Homo sapiens
1418	4483	4	Somatostatin Receptor Type 4	P31391	1008	CLLEGAGGAEEEPDY	Homo sapiens
1419	4483	4	Somatostatin Receptor Type 4	P31391	2627	KMRAVALRAGWQQRR	Homo sapiens
1420	4483	4	Somatostatin Receptor Type 4	P31391	2631	CRAVLSVDGLNMFTSV	Homo sapiens
1421	4483	4	Somatostatin Receptor Type 4	P31391	2633	CLVGLVGNALVIFVL	Homo sapiens
1422	4484	5	Somatostatin Receptor Type 5	NP_001044.1	2637	SLPLLVFADVQEGGTC	Homo sapiens
1423	4484	5	Somatostatin Receptor Type 5	NP_001044.1	2638	CLRKGSGAKDADATEP	Homo sapiens
1424	4484	5	Somatostatin Receptor Type 5	NP_001044.1	2639	RIRQQQEATPPAHRAAA	Homo sapiens
1425	4484	5	Somatostatin Receptor Type 5	NP_001044.1	2643	RVAKLASAAAWVLSLC	Homo sapiens
1426	4552		Tachykinin Receptor 1	AAA36641.1	1339	CMIEWPEHPNKIYKVV	Homo sapiens
1427	4552		Tachykinin Receptor 1	AAA36641.1	1340	CPFISAGDVEGLEMKSTRYL	Homo sapiens
1428	4552		Tachykinin Receptor 1	AAA36641.1	1341	KVSRLETTITTVVGAHEE	Homo sapiens
1429	4552		Tachykinin Receptor 1	AAA36641.1	1342	EPEDGPKATPSSLDLTSNC	Homo sapiens
1430	4687		Thrombin Receptor	P25116	1202	EDEEKNESGLTEYRLV	Homo sapiens
1431	4687		Thrombin Receptor	P25116	2582	AVANRPSKSRALFLSAAVFC	Homo sapiens
1432	4687		Thrombin Receptor	P25116	2583	SINKSPLQKQLPAFISE	Homo sapiens

1433	4687	Thrombin Receptor	P25116	2621	DPRSFLLRNPNDKYEPFWE	Homo sapiens
1434	4734	Thyrotropin Releasing Hormone Receptor	P34981	1196	PSDPKENSKTWKNDST	Homo sapiens
1435	4734	Thyrotropin Releasing Hormone Receptor	P34981	1197	CFNSTVSSRKQVTKMLA	Homo sapiens
1436	4734	Thyrotropin Releasing Hormone Receptor	P34981	1198	RAAFRLKLCNCKQKPTPE	Homo sapiens
1437	4734	Thyrotropin Releasing Hormone Receptor	P34981	1199	KPANYSVALNYSVIKE	Homo sapiens
1438	4734	Thyrotropin Releasing Hormone Receptor	P34981	1200	KESDHFSTELDDITVTD	Homo sapiens
1439	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1771	EQKNKPRNDIFKII	Homo sapiens
1440	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1772	SVRPSDNVSSSTKKPAPC	Homo sapiens
1441	4944	Angiotensin II Type 1 Receptor	NP_000676.1	1773	LNSSTEDGIKRIQDDC	Homo sapiens
1442	4946	Angiotensin II Type 2 Receptor	P50052	1321	CSQKPSDKHLDAIPIL	Homo sapiens
1443	4946	Angiotensin II Type 2 Receptor	P50052	1322	DRYQSVIYPFLSQRRN	Homo sapiens
1444	4946	Angiotensin II Type 2 Receptor	P50052	1323	RKHLLKTNISYGKNRITRD	Homo sapiens
1445	4946	Angiotensin II Type 2 Receptor	P50052	1324	RVPTITWLQGKRESMSC	Homo sapiens
1446	5072	Pyrimidinergic Receptor P2Y4	P51582	1142	CHDITRPEEFDHYVHFSSA	Homo sapiens
1447	5072	Pyrimidinergic Receptor P2Y4	P51582	1145	YLLTGDKYRRQLRQLC	Homo sapiens
1448	5072	Pyrimidinergic Receptor P2Y4	P51582	2696	HPLRALRWGRPRLAG	Homo sapiens
1449	5072	Pyrimidinergic Receptor P2Y4	P51582	2697	HIITRTIYYLARLLEADC	Homo sapiens
1450	5117	Vasopressin V1A Receptor	AAA62271.1	262	REAEALGEGNGPPRDVRNEE	Homo sapiens
1451	5117	Vasopressin V1A Receptor	AAA62271.1	263	NVRGKTASRQSGKGAEQ	Homo sapiens
1452	5117	Vasopressin V1A Receptor	AAA62271.1	264	QNMKEKFNKEDTDSMSRRQ	Homo sapiens
1453	5117	Vasopressin V1A Receptor	AAA62271.1	265	RQIFYSNNRSPNTSTGMWKD	Homo sapiens
1454	5118	Vasopressin V1B Receptor	AAA65687.1	266	NATTPWLGRDEELAKVE	Homo sapiens
1455	5118	Vasopressin V1B Receptor	AAA65687.1	267	TRGLPSRVSSINTISRAKIR	Homo sapiens

1456	5118	Vasopressin V1B Receptor	AAA65687.1	268	QPRMRRRLSDGSLSRH	Homo sapiens
1457	5118	Vasopressin V1B Receptor	AAA65687.1	269	ESPRDLEADGEGTAET	Homo sapiens
1458	5119	Vasopressin V2 Receptor	CAA77746.1	270	SNSSQERPLDTRDPLARAE	Homo sapiens
1459	5119	Vasopressin V2 Receptor	CAA77746.1	271	RHSGGAHWNRPLVAVAFS	Homo sapiens
1460	5119	Vasopressin V2 Receptor	CAA77746.1	272	CQVLIFREIHASLVGPSEK	Homo sapiens
1461	5119	Vasopressin V2 Receptor	CAA77746.1	273	RGRTPPSLGPQDESC	Homo sapiens
1462	5133	Peropsin	O14718	1147	KNEDGSVFSQTEHNIV	Homo sapiens
1463	5133	Peropsin	O14718	1148	IKYKELRTPTNAIIIN	Homo sapiens
1464	5133	Peropsin	O14718	1149	RKNDRSFVSMTMIVA	Homo sapiens
1465	5133	Peropsin	O14718	1150	CTESLNRDWSQIDVTK	Homo sapiens
1466	5133	Peropsin	O14718	1151	VANKKFRAMLAMFKC	Homo sapiens
1467	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	987	CGPAGRTSSRSQSLRSTDAR	Homo sapiens
1468	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	988	EENRDKWEEAQLAGPN	Homo sapiens
1469	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	989	CRVVDRQEEGNGDSGG	Homo sapiens
1470	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	990	KRDKAPKSSFVGDGDI	Homo sapiens
1471	5519	Brain-Specific Angiogenesis Inhibitor 1	O14514	991	RKLQHAAEKDKEVLGP	Homo sapiens
1472	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	981	CLRPSPEEAVAQAESEVGR	Homo sapiens
1473	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	982	GSSNDLFTTEMRYGEE	Homo sapiens
1474	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	983	MARDGISDKSKKQKQAGSERC	Homo sapiens
1475	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	984	EDAPRARPEGTPRRAAK	Homo sapiens
1476	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	985	RSRTMPRTVPGSTMKMGSL	Homo sapiens
1477	5520	Brain-Specific Angiogenesis Inhibitor 2	O60241	986	KREKRWSVSSGGAAERSVC	Homo sapiens
1478	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	976	RRVFPTNFPGLQKKGE	Homo sapiens
1479	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	977	CNLTREAKRPPIKEEFG	Homo sapiens
1480	5521	Brain-Specific Angiogenesis Inhibitor 3	O60242	978	KLKIRAGQMSEPHSGLTLC	Homo sapiens

1481	5521	Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	979	CTDNLRLRGADMIVHPQER	Homo sapiens
1482	5521	Brain-Specific Angiogenesis Inhibitor 3	Brain-Specific Angiogenesis Inhibitor 3	O60242	980	SRSETGSTISMSSLLER	Homo sapiens
1483	6031	SIV/HIV Receptor BONZO	SIV/HIV Receptor BONZO	O00574	1101	NDSSQEEHQDFLQFSK	Homo sapiens
1484	6031	SIV/HIV Receptor BONZO	SIV/HIV Receptor BONZO	O00574	1102	KATKAYNQQAARMTWG	Homo sapiens
1485	6031	SIV/HIV Receptor BONZO	SIV/HIV Receptor BONZO	O00574	1103	KTLIHAGGFQKHSRLK	Homo sapiens
1486	6031	SIV/HIV Receptor BONZO	SIV/HIV Receptor BONZO	O00574	1104	SLKFRKNFWKLVDIGC	Homo sapiens
1487	6031	SIV/HIV Receptor BONZO	SIV/HIV Receptor BONZO	O00574	1105	KSEDNSKTSASHNV	Homo sapiens
1488	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	66	ERHRSVMAVQLHSRLPRGR	Homo sapiens
1489	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	67	RRRVQRMAEHVSCHPRYRE	Homo sapiens
1490	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	68	NAAVWSCRDAEMRRTRFR	Homo sapiens
1491	6204	Lysophosphatidic Acid Receptor Edg4	Lysophosphatidic Acid Receptor Edg4	AAC27728.1	69	RQSTRESVHYTSSAQGGAST	Homo sapiens
1492	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	38	YSQYQFWKNFQTLK	Homo sapiens
1493	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	39	QGEAPERASSVYTRSTGEQE	Homo sapiens
1494	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	40	RSQKEGLHYTCSSHFPYSQ	Homo sapiens
1495	6213	C-C Chemokine Receptor 5	C-C Chemokine Receptor 5	AAC50598.1	309	MIDYQVSSPIYDINVYTSEPC	Homo sapiens
1496	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1092	EDEYDVLIEGELESDAEQC	Homo sapiens
1497	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1093	KGNFFSARRRVPCGIITSVL	Homo sapiens
1498	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1094	MIRKTLRFREQRYSLFKLVFA	Homo sapiens
1499	6363	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	Chemokine (C-C motif) Receptor-like 2 (CCRL2)	O00421	1096	RSNTPLQPRGQSAQGTSRE	Homo sapiens
1500	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	127	GPNGSARDVLRARAPREEQG	Homo sapiens
1501	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	129	DPGGPRRGNSTNRRVRLKNP	Homo sapiens
1502	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	130	LRQLSKEDLGFSGRAPAERC	Homo sapiens
1503	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	131	PRGAVISGRSQEQSVKTVPG	Homo sapiens
1504	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	AAC51281.1	1781	CIGKSTVTSDDNDNEYTE	Homo sapiens
1505	6446	Pael Receptor (GPR37)	Pael Receptor (GPR37)	NP_005293.1	1806	CIGKSTVTSDDNDNEYTE	Homo sapiens
1506	6536	Putative Neurotransmitter Receptor (PNR)	Putative Neurotransmitter Receptor (PNR)	O14804	319	TDVVETRLSQWLEEMPC	Homo sapiens

1507	6536	Putative Neurotransmitter Receptor (PNR)	O14804	320	KSLAGAAKHERKAAKT	Homo sapiens
1508	6536	Putative Neurotransmitter Receptor (PNR)	O14804	321	RKALKLTLSQKVFPQTR	Homo sapiens
1509	6536	Putative Neurotransmitter Receptor (PNR)	O14804	485	HPAAFCYQVNGSCPR	Homo sapiens
1510	6777	G Protein-Coupled Receptor TM7SF1	O60478	788	KAKSKYSPELLKYRLP	Homo sapiens
1511	6777	G Protein-Coupled Receptor TM7SF1	O60478	790	KTGNWERKVIVSVRVA	Homo sapiens
1512	6777	G Protein-Coupled Receptor TM7SF1	O60478	791	KSVHSFDYDWYNNVSDQAD	Homo sapiens
1513	6777	G Protein-Coupled Receptor TM7SF1	O60478	792	RVRNPTKDLTNPQMVP	Homo sapiens
1514	6777	G Protein-Coupled Receptor TM7SF1	O60478	793	RYDSDDDLAWNIAQQGLQ	Homo sapiens
1515	6853	Purinergic Receptor P2Y11	O43190	865	PTLSFSLKRPQQGAGNC	Homo sapiens
1516	6853	Purinergic Receptor P2Y11	O43190	866	GALGRAVLRSFGMTVAE	Homo sapiens
1517	6853	Purinergic Receptor P2Y11	O43190	867	MRVINVDARRRWSTRC	Homo sapiens
1518	6853	Purinergic Receptor P2Y11	O43190	868	CPGYRDSWNIPEDAKSTGQA	Homo sapiens
1519	6853	Purinergic Receptor P2Y11	O43190	2299	CPANFLAAADDKLSGFQGD	Homo sapiens
1520	6853	Purinergic Receptor P2Y11	O43190	2300	ASNGLALYRFSIRKQIR	Homo sapiens
1521	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	137	CNRSSTRHHEQPETSN	Homo sapiens
1522	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	139	PNQIRIRIMAAAKPKHD	Homo sapiens
1523	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	140	EKRLRVHAHSTTDSAR	Homo sapiens
1524	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	141	VQRPLLFASRRQRSSARTEK	Homo sapiens
1525	6921	G Protein-Coupled Receptor GPR39	AAC26082.1	142	QSEAEQSKSGSLLESLEP	Homo sapiens
1526	7221	Galanin Receptor GalR2	AAC39634.1	197	NLTVCHPAWSAPRRRAMD	Homo sapiens
1527	7221	Galanin Receptor GalR2	AAC39634.1	198	RAVDPAAGSGARRAKRK	Homo sapiens
1528	7221	Galanin Receptor GalR2	AAC39634.1	199	GRAPGRASGRVCAAAARG	Homo sapiens
1529	7221	Galanin Receptor GalR2	AAC39634.1	200	ERESDLLHMEAAAGALRPC	Homo sapiens
1530	7246	Orexin Receptor 1	AAC39601.1	235	DQLGDLEQGLSGEPQP	Homo sapiens
1531	7246	Orexin Receptor 1	AAC39601.1	236	EPSATPGAQMGVPPGSR	Homo sapiens

1532	7246	Orexin Receptor 1	AAC39601.1	237	KRPSDQLGDLEQGLSGEPQ	Homo sapiens
1533	7246	Orexin Receptor 1	AAC39601.1	239	KAPSPRSSASHKSLSLQSRC	Homo sapiens
1534	7247	Orexin Receptor 2	AAC39602.1	240	SELNETQEPFLNPTDYDDEE	Homo sapiens
1535	7247	Orexin Receptor 2	AAC39602.1	241	KWKPLQPVSQPRGPGGQ	Homo sapiens
1536	7247	Orexin Receptor 2	AAC39602.1	242	TKSRMSAVAAEIKQIRA	Homo sapiens
1537	7247	Orexin Receptor 2	AAC39602.1	243	RQEDRLTRGRITSTSRKS	Homo sapiens
1538	8436	Platelet-Activating Factor Receptor	P25105	1097	AVTRPIKTAQANTRKR	Homo sapiens
1539	8436	Platelet-Activating Factor Receptor	P25105	1098	DSTNTVPDSAGSGNVTRC	Homo sapiens
1540	8436	Platelet-Activating Factor Receptor	P25105	1099	GQRNAEVKRRALWMVC	Homo sapiens
1541	8436	Platelet-Activating Factor Receptor	P25105	1100	KKFRKHLTEKFYSMRSSKRC	Homo sapiens
1542	8509	G Protein-Coupled Receptor Ls8509	Q14439	398	DRYYSVLVPLERKISDAKSR	Homo sapiens
1543	8509	G Protein-Coupled Receptor Ls8509	Q14439	400	DEESEAKEYIGSADFGAKE	Homo sapiens
1544	8509	G Protein-Coupled Receptor Ls8509	Q14439	401	ETRNSKKRLLPPLGNTPEE	Homo sapiens
1545	8509	G Protein-Coupled Receptor Ls8509	Q14439	402	ELIQTIVPKVGRVERKMSR	Homo sapiens
1546	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1078	KKQRKAGNFTSILIAN	Homo sapiens
1547	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1079	FRNLSLPTDLYTHQVAC	Homo sapiens
1548	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1080	CVENWPSKKDRLLFTT	Homo sapiens
1549	8896	Neuropeptide Y Receptor Type 6 Pseudogene	Q99463	1081	CLRRRNKVDKKKENEGR	Homo sapiens
1550	9421	Neuropeptide Y Receptor Type 1	P25929	1064	DEPFQNVTLDAYKDKVVC	Homo sapiens
1551	9421	Neuropeptide Y Receptor Type 1	P25929	1065	CYFKIYIRLKRNNINMMDK	Homo sapiens
1552	9421	Neuropeptide Y Receptor Type 1	P25929	1066	CDFRSRDDDDYETIAMS	Homo sapiens
1553	9421	Neuropeptide Y Receptor Type 1	P25929	1498	ENDDCHPLPAMIFTLALA	Homo sapiens
1554	9421	Neuropeptide Y Receptor Type 1	P25929	2291	SNFSEKNAQLLAFENDDC	Homo sapiens

1555	9834	Type 1 Corticotropin releasing factor Receptor 1	NP_004373.1	1778	CESLSLASNISDNGYRE	Homo sapiens
1556	9834	Corticotropin releasing factor Receptor 1	NP_004373.1	1779	CQEILNEEKSKVHYHVA	Homo sapiens
1557	10457	Frizzled-2	NP_001457.1	1774	NHSEDCAPALLTAPP	Homo sapiens
1558	10457	Frizzled-2	NP_001457.1	1775	GGAPPRYATLEHPFHC	Homo sapiens
1559	10457	Frizzled-2	NP_001457.1	1776	CEPARPDGSMFFSQEE	Homo sapiens
1560	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP1IY20)	AAB97766.1	1082	AAREAGAAVRRPLGPE	Homo sapiens
1561	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP1IY20)	AAB97766.1	1083	LYRPPPREKIGRRRA	Homo sapiens
1562	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP1IY20)	AAB97766.1	1085	PRELAAGQSFHGCLYR	Homo sapiens
1563	11968	Putative Leukocyte Platelet- Activating Factor Receptor (HUMNP1IY20)	AAB97766.1	1086	CKTVRLSDVRVPVNTYAR	Homo sapiens
1564	14198	Interleukin-8 Receptor B	P25025	802	EDFWKGEDLSNYSYS	Homo sapiens
1565	14198	Interleukin-8 Receptor B	P25025	803	PFLLDAAPCEPESLE	Homo sapiens
1566	14198	Interleukin-8 Receptor B	P25025	804	RRTVSSNVSPACYE	Homo sapiens
1567	14198	Interleukin-8 Receptor B	P25025	805	SKDSLPKDSRPSFVGS	Homo sapiens
1568	14641	Calcitonin Receptor	P30988	766	PKPLYVVGRRKKMMDAQYKC	Homo sapiens
1569	14641	Calcitonin Receptor	P30988	769	VEVVPNGELVRDPVSC	Homo sapiens
1570	14641	Calcitonin Receptor	P30988	771	KIQWNQWRGRRPSNRS	Homo sapiens
1571	14641	Calcitonin Receptor	P30988	772	CHQEPRNEPANNGEESAE	Homo sapiens
1572	16041	C-C Chemokine Receptor 6	P51684	355	TKSFLRLSRTLPRSKIIC	Homo sapiens
1573	16041	C-C Chemokine Receptor 6	P51684	356	STFVFNQKYNTQGSVDCE	Homo sapiens
1574	16041	C-C Chemokine Receptor 6	P51684	357	TAANLGKMNRSQSE	Homo sapiens
1575	16041	C-C Chemokine Receptor 6	P51684	358	RYSENISRQTSSETADNDNAS	Homo sapiens
1576	16599	Smoothed	NP_005622.1	2595	CPLAPPELHPPAPAP	Homo sapiens
1577	16599	Smoothed	NP_005622.1	2666	CAVERERGWPDFLR	Homo sapiens
1578	16599	Smoothed	NP_005622.1	2667	CTNEVQNIKFNSSGQ	Homo sapiens
1579	16599	Smoothed	NP_005622.1	2668	CEVPLVRTDNPKSWYE	Homo sapiens
1580	16599	Smoothed	NP_005622.1	2669	CRADGTMRLGEPTNE	Homo sapiens

1581	16599	Smoothered	NP_005622.1	2670	EAEISPELQKRLGRKK	Homo sapiens
1582	16599	Smoothered	NP_005622.1	2671	ANVTIGLPTKQIPDC	Homo sapiens
1583	17250	G Protein-Coupled Receptor GPR45	O43898	1227	SNASDSGSTQLPAPLR	Homo sapiens
1584	17250	G Protein-Coupled Receptor GPR45	O43898	1228	CVLGYTELPADRAVW	Homo sapiens
1585	17250	G Protein-Coupled Receptor GPR45	O43898	1249	LNTVRKNAVVRVHNQSD	Homo sapiens
1586	17250	G Protein-Coupled Receptor GPR45	O43898	1272	KVPERIRRRRIQPSTVVC	Homo sapiens
1587	17250	G Protein-Coupled Receptor GPR45	O43898	1273	DSLDRQLTRAGLRRL	Homo sapiens
1588	17345	G Protein-Coupled Receptor D6	LR13	363	EDADAENSSFYDYDLDE	Homo sapiens
1589	17345	G Protein-Coupled Receptor D6	LR13	364	DKYLEIVHAQPYHRLRTR	Homo sapiens
1590	17345	G Protein-Coupled Receptor D6	LR13	365	CVLVRLRPAGQGGRALK	Homo sapiens
1591	17345	G Protein-Coupled Receptor D6	LR13	366	DLGERQSENYPNKEDVGNK	Homo sapiens
1592	17535	Gaba(b) Receptor 1	O95375	188	EKLTKRLKRHPETGGFQEA	Homo sapiens
1593	17535	Gaba(b) Receptor 1	O95375	189	KKEEKKEWRKTLEPWK	Homo sapiens
1594	17535	Gaba(b) Receptor 1	O95375	190	DPLHRTIETFAKEPKEDID	Homo sapiens
1595	17535	Gaba(b) Receptor 1	O95375	191	YEIEVVCRGEREVVGPKVRK	Homo sapiens
1596	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1205	SLWETVQKWREYRRQC	Homo sapiens
1597	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1206	LQKDNSSLPWRLDSEC	Homo sapiens
1598	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1208	CIVVSKLKANLMCKTD	Homo sapiens
1599	17666	Glucagon-Like Peptide 1 Receptor	AAA17021.1	1209	RWRLEHLHIQRDSSMKPLKC	Homo sapiens
1600	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1520	CQVDETEEPDVHLPQP	Homo sapiens
1601	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1521	REGLEAAGAAGASAAASYSS	Homo sapiens
1602	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1522	KLPSARAKIRITSSPI	Homo sapiens
1603	18471	G Protein-Coupled Receptor LOC51210	NP_057456.1	1523	ESKSSIKRVLAITTVLS	Homo sapiens

1604	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1524	QGTLEILYPD AHL SAED	Homo sapiens
1605	18471	Receptor LOC51210 G Protein-Coupled	NP_057456.1	1525	PKTPLKERISLP SRRS	Homo sapiens
1606	19072	Receptor LOC51210 G Protein-Coupled	ENSP00000164265	2030	SVVQLRRQRPF EWNEGLC	Homo sapiens
1607	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2032	PAVGWHD T SERFYTHGC	Homo sapiens
1608	19072	Receptor Ls19072 G Protein-Coupled	ENSP00000164265	2047	AVGVGRQADRRRAFTVPT	Homo sapiens
1609	19501	Receptor Ls19072 G Protein-Coupled	Q9UIZ3	1513	EHEPAGEALRQKRAVATK	Homo sapiens
1610	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1514	ALRQKRAVATKSP TAE	Homo sapiens
1611	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1515	CEKEVLSSNVSWRYEEQQLE	Homo sapiens
1612	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1518	RLANNITGGWDSSGCWEEGD	Homo sapiens
1613	19501	Receptor KIAA0758 G Protein-Coupled	Q9UIZ3	1519	CKQEKSLFQISKSIG	Homo sapiens
1614	21632	Receptor KIAA0758 G Protein-Coupled	BAA96055.1	2164	CTAFQRREGGVPGRPGSPG	Homo sapiens
1615	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2166	APGTRASRRCDRAGRWE	Homo sapiens
1616	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2167	CPAERVANNRGDFRWPR	Homo sapiens
1617	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2171	QNPPPEPEPPADQQLRFRC	Homo sapiens
1618	21632	Receptor Ls21632 G Protein-Coupled	BAA96055.1	2175	VPLGGGAPGTRASRRC	Homo sapiens
1619	22315	Receptor Ls21632 G Protein-Coupled	LR29	425	PAARVHRPSRCRYRD	Homo sapiens
1620	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	426	TLARPDATQSQRRRKTVRL	Homo sapiens
1621	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	427	RSKLVAASVPARDVRVG	Homo sapiens
1622	22315	Receptor GPR92/GPR93 G Protein-Coupled	LR29	428	AQSERSAVTIDATRPD	Homo sapiens

1623	22925	Latrophilin-3	O94867	1138	CSGKSTESSIGSGKTSGSR	Homo sapiens
1624	22925	Latrophilin-3	O94867	1140	ENHQPHHYTRRRIPQD	Homo sapiens
1625	22925	Latrophilin-3	O94867	1141	ESVTSTQTETPPPAKC	Homo sapiens
1626	22925	Latrophilin-3	O94867	1497	SSASLNREGLLNNARD	Homo sapiens
1627	25359	G Protein-Coupled Receptor GPR34	O95853	1255	DRYIKINRSIQQRKAIT	Homo sapiens
1628	25359	G Protein-Coupled Receptor GPR34	O95853	1257	CFHYRDKHNAKGEAIFN	Homo sapiens
1629	25359	G Protein-Coupled Receptor GPR34	O95853	1258	RISKRRSKFPNSGKYA	Homo sapiens
1630	25359	G Protein-Coupled Receptor GPR34	O95853	1259	CQLLFRFRQGEPSRSESTSE	Homo sapiens
1631	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2721	RLQEILTEKINKTR	Homo sapiens
1632	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2722	KGKSRAAENASLGPTN	Homo sapiens
1633	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2723	LLFGTIMDHKIRDAUR	Homo sapiens
1634	30698	G Protein-Coupled Receptor Ls30698	CAC27252.1	2724	RPSIGSSKSQDVVIMRI	Homo sapiens
1635	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1579	KLPNNELHGQESHNSGN	Homo sapiens
1636	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1580	SGNRSDGPGKNTLHNEFD	Homo sapiens
1637	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1581	RQFISQSSRRKRKHNSQIR	Homo sapiens
1638	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1582	SHLDRLDESAQKILYYC	Homo sapiens
1639	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1584	CRSFSRRLFKKSNIRTRSE	Homo sapiens
1640	30875	G Protein-Coupled Receptor GPR87/GPR95	NP_076404.1	1585	ESIRSLQSVRRSEVRIVYD	Homo sapiens
1641	31568	G Protein-Coupled Receptor RE2	O75963	331	CRKELSNLTEEEGEGGV	Homo sapiens
1642	31568	G Protein-Coupled Receptor RE2	O75963	332	EEDAQRTRGRKNSSTSTSS	Homo sapiens
1643	31568	G Protein-Coupled Receptor RE2	O75963	333	CFGDRYWREPFVQRQRISR	Homo sapiens
1644	31568	G Protein-Coupled Receptor RE2	O75963	334	HSSSTGDTGFCSCQDSGNL	Homo sapiens

1645	36534	Receptor RE2	O75473	1232	CQKLQKIDLRHNEIVEIKVD	Homo sapiens
1646	36534	G Protein-Coupled Receptor GPR49	O75473	1233	NKGDNSSMDDLHKDA	Homo sapiens
1647	36534	G Protein-Coupled Receptor GPR49	O75473	1234	QDERDLEFLDFEED	Homo sapiens
1648	36534	G Protein-Coupled Receptor GPR49	O75473	1235	ERGFVKYSAKFETKA	Homo sapiens
1649	36534	G Protein-Coupled Receptor GPR49	O75473	1236	RSKHPSLMSINSDDVEKQSC	Homo sapiens
1650	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2597	DAQESTGVTLRQRR	Homo sapiens
1651	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2600	CKKINGLUSETEAVVTN	Homo sapiens
1652	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2610	ADDQTLLEQMMDQDDG	Homo sapiens
1653	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2672	KYNQSI SLRPRLASQ	Homo sapiens
1654	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2673	KRYFAKFEKFFQTC	Homo sapiens
1655	37498	Xenotropic and Polytopic Retrovirus Receptor (XPR1)	NP_004727.1	2674	DGDRQKAMKRLRPPL	Homo sapiens
1656	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2103	RVRSGRVRYSYTRDFQDC	Homo sapiens
1657	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2105	CNNSVPGKEHPDITVMIRE	Homo sapiens
1658	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2106	APSKPGLPKPQATVPRKVD	Homo sapiens
1659	40881	Lung Seven Transmembrane Receptor 2 (LUSTR2)	CAC28410.1	2135	AASKPKSTPAVIQGPGSKD	Homo sapiens
1660	42697	G Protein-Coupled Receptor GPR64	O00406	1261	KRSELNKTQLTSETYFIMC	Homo sapiens
1661	42697	G Protein-Coupled Receptor GPR64	O00406	1262	GNASTERNGVSFVQNGDVC	Homo sapiens
1662	42697	G Protein-Coupled Receptor GPR64	O00406	1263	CRIKKKKQLGAQRKTSIQD	Homo sapiens
1663	42697	G Protein-Coupled Receptor GPR64	O00406	1264	DFTGKQHMFKNEKEDSC	Homo sapiens

1664	45937	KIAA1624 Protein	AAK57695	2072	PNVNPASAGNQTKTQD	Homo sapiens
1665	45937	KIAA1624 Protein	AAK57695	2073	RVKSPPEAGTQLPKIIFS	Homo sapiens
1666	45937	KIAA1624 Protein	AAK57695	2074	KDGYMVVNVSLSNEPED	Homo sapiens
1667	45937	KIAA1624 Protein	AAK57695	2076	RSTVDSKAMGEKSFVHNING	Homo sapiens
1668	50847	Neurotensin Receptor type 2	O95665	1265	CQPLRARSLITPRRIR	Homo sapiens
1669	50847	Neurotensin Receptor type 2	O95665	1266	GQKHELETADGEPEASRVC	Homo sapiens
1670	50847	Neurotensin Receptor type 2	O95665	1267	KKTFIQGGQVSLVRHKD	Homo sapiens
1671	50847	Neurotensin Receptor type 2	O95665	1269	CGEHHPMKRLPPKPQSP	Homo sapiens
1672	50847	Neurotensin Receptor type 2	O95665	2294	STSTPGSSTPSRLLELSEE	Homo sapiens
1673	50847	Neurotensin Receptor type 2	O95665	2301	METSSPRPPRPSSNPG	Homo sapiens
1674	50847	Neurotensin Receptor type 2	O95665	2302	CSQVVPSTPGSGSTPSR	Homo sapiens
1675	53440	G Protein-Coupled Receptor LS53440	LR76	1850	DPNGNESSATYFIUG	Homo sapiens
1676	53440	G Protein-Coupled Receptor LS53440	LR76	1851	RHATVLTLPRTKIGV	Homo sapiens
1677	53440	G Protein-Coupled Receptor LS53440	LR76	1852	ILKTVLGLTREAAQAKA	Homo sapiens
1678	53440	G Protein-Coupled Receptor LS53440	LR76	1853	HRFSKRRDSPLPVILAN	Homo sapiens
1679	53440	G Protein-Coupled Receptor LS53440	LR76	1854	KEIRQRILRLFHVATHASE	Homo sapiens
1680	54053	Gaba(b) Receptor 2	O75899	1416	GEDIESDTESFNDPC	Homo sapiens
1681	54053	Gaba(b) Receptor 2	O75899	1417	SSKQIKTISGKTPQQYE	Homo sapiens
1682	54053	Gaba(b) Receptor 2	O75899	1419	AATQNRFRQFTQNGKKE	Homo sapiens
1683	54053	Gaba(b) Receptor 2	O75899	1420	CKDPIEDINSPEHIQRR	Homo sapiens
1684	55728	ETL protein	NP_071442.1	2113	CVLSRKIQEEVYRLFKNVP	Homo sapiens
1685	55728	ETL protein	NP_071442.1	2114	CIAANINKTLKIRSIKEP	Homo sapiens
1686	55728	ETL protein	NP_071442.1	2115	KLNVNHRRTLTLMHTVE	Homo sapiens
1687	55728	ETL protein	NP_071442.1	2116	EKITFLSHRKVTDYRSLC	Homo sapiens
1688	55728	ETL protein	NP_071442.1	2117	SSLLGYKNNTISAKD	Homo sapiens
1689	56923	Muscarinic acetylcholine	P20309	1421	CSSYELQQQQSMKRSNRRK	Homo sapiens

1690	56923	Receptor M3	P20309	1422	KPSEQMDQDHSSSDSWNNN	Homo sapiens
1691	56923	Muscarinic acetylcholine Receptor M3	P20309	1423	DLERKADKLQAQKSVD	Homo sapiens
1692	56923	Muscarinic acetylcholine Receptor M3	P20309	1424	KEATLAKRFALKTRSQ	Homo sapiens
1693	57180	Muscarinic acetylcholine Receptor M3	NP_062813.1	2097	PPTCRPRRMSVCYRPPGNE	Homo sapiens
1694	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2098	CLAVTRPFLAPRLRSPALAR	Homo sapiens
1695	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2099	RGARWGSGRHGARGVGR	Homo sapiens
1696	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2100	TAGDLLPRAGPRFLTR	Homo sapiens
1697	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2101	EGSGEARGGGRSREGTME	Homo sapiens
1698	57180	Leukotriene B4 Receptor BLTR2	NP_062813.1	2102	RTTPQLKVVGQGRNGD	Homo sapiens
1699	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1909	RSAPTALSRRLRARTHLPGC	Homo sapiens
1700	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1910	VRGSHGEPDASLMPRSC	Homo sapiens
1701	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1911	RKEDSVLMEATSGGPTSR	Homo sapiens
1702	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1912	DQNKADIGGMLPGLTVRSV	Homo sapiens
1703	73584	Cadherin EGF LAG Seven-Pass G-Type Receptor 1 (CELSR1/Flamingo)	NP_055061.1	1913	PAGWPDQSLAESDSEDPGS	Homo sapiens
1704	74514	5-HT5A Receptor	NP_076917.1	2118	ETNHSLGKDDLRPSSP	Homo sapiens
1705	74514	5-HT5A Receptor	NP_076917.1	2119	SLVHELSGRRWQLGRRLC	Homo sapiens
1706	74514	5-HT5A Receptor	NP_076917.1	2120	LLFGWGETYSEGSEC	Homo sapiens
1707	74514	5-HT5A Receptor	NP_076917.1	2121	FRVGSRTKNSVSPISE	Homo sapiens
1708	74514	5-HT5A Receptor	NP_076917.1	2122	RHATVTFQPEGDTWREQK	Homo sapiens

1709	81765	Thromboxane A2 Receptor	P21731	1277	GITRPFSPAVASQRR	Homo sapiens
1710	81765	Thromboxane A2 Receptor	P21731	1278	CHVYHGGEAAQQRPRDSEVE	Homo sapiens
1711	81765	Thromboxane A2 Receptor	P21731	1279	RNPPAMSPAGQLSRTE	Homo sapiens
1712	81765	Thromboxane A2 Receptor	P21731	1280	RRLQPRLSRPRRVSLC	Homo sapiens
1713	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	155	RYLSVVSPLSLRVPTLRC	Homo sapiens
1714	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	156	SSILDTFHKVLSSGCDYSE	Homo sapiens
1715	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	157	VEILRTLFRSRKRHRITVK	Homo sapiens
1716	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	158	QTLFRTQILRSCEAKQQL	Homo sapiens
1717	98519	Chemokine (C motif) XC Receptor 1 (CCXCR1)	AAA62837.1	159	RLQAPSPASIPHSPGAFAYE	Homo sapiens
1718	130108	Receptor 1 (CCXCR1)	NP_006785.1	1589	RIEYVYVINSSPSQEE	Homo sapiens
1719	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1590	IMIAQLTRKNAQVRKC	Homo sapiens
1720	130108	Receptor GPR75	NP_006785.1	1591	RNQNYNKLQHVQTRGYTKS	Homo sapiens
1721	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1592	SRLQLVSAINLSTAKD	Homo sapiens
1722	130108	Receptor GPR75	NP_006785.1	1593	CKQKTRLRAMGKGNLEVN	Homo sapiens
1723	130108	G Protein-Coupled Receptor GPR75	NP_006785.1	1594	NSAYMLSPKPKKKFVDQAC	Homo sapiens
1724	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1218	CKVQDSNRRKMLPTQF	Homo sapiens
1725	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1219	HAVSLTKLVRGRKPLS	Homo sapiens
1726	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1220	NVNVFELSAPRRNED	Homo sapiens
1727	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1221	TKQRNPMDPVEDAFC	Homo sapiens
1728	133117	G Protein-Coupled Receptor RAIG1	AAC98506.1	1222	CKPQLVKKSYGVENRA	Homo sapiens
1729	152198	Tachykinin Receptor 2	AAB05897.1	1286	RRAVPGHQAHGANLRH	Homo sapiens
1730	152198	Tachykinin Receptor 2	AAB05897.1	1287	KEDKLEIPTSLSLRVNR	Homo sapiens
1731	152198	Tachykinin Receptor 2	AAB05897.1	1288	KETLFMAGDTAPSEATSGEA	Homo sapiens

1732	152198	Tachykinin Receptor 2	AAB05897.1	1290	CVVWPEDSGGKTL	Homo sapiens
1733	152201	Thyrotropin Receptor	P16473	1445	RQRKSVNALNSPLHQE	Homo sapiens
1734	152201	Thyrotropin Receptor	P16473	1446	KFQDTHNNAHYVFFEEQED	Homo sapiens
1735	152201	Thyrotropin Receptor	P16473	1449	CHVKYIVTRNPQYNPGDK	Homo sapiens
1736	152201	Thyrotropin Receptor	P16473	1450	CKRQAQAYRGQRVPKKNSTD	Homo sapiens
1737	152245	C-C Chemokine Receptor 2	NP_0006639.1	1896	SRSRFIRNTNESGEEVT	Homo sapiens
1738	152245	C-C Chemokine Receptor 2	NP_0006639.1	1898	CQKEDSVYVCGPYFPRGWNIN	Homo sapiens
1739	152245	C-C Chemokine Receptor 2	NP_0006639.1	1899	SGEEVTTFDDYDYGAPCHKF	Homo sapiens
1740	152299	Interleukin-8 Receptor A	P25024	806	DFDDLNTFGMPPADEDYSPC	Homo sapiens
1741	152299	Interleukin-8 Receptor A	P25024	807	CWGLSMNLSLPFFLFRQAYH	Homo sapiens
1742	152299	Interleukin-8 Receptor A	P25024	808	RHRVTSYSSSVNVSSN	Homo sapiens
1743	152299	Interleukin-8 Receptor A	P25024	1490	CMLETETLNKYVVIAYALV	Homo sapiens
1744	158822	Mas Proto-Oncogene	NP_002368.1	1527	EEPTINISTGRNASVGNHRQ	Homo sapiens
1745	158822	Mas Proto-Oncogene	NP_002368.1	1528	RRNPFVYITHLSIAD	Homo sapiens
1746	158822	Mas Proto-Oncogene	NP_002368.1	1529	YVMCIDREEESHNRDCRAV	Homo sapiens
1747	158822	Mas Proto-Oncogene	NP_002368.1	1530	SSTILVVKIRKNTWASHSSK	Homo sapiens
1748	158822	Mas Proto-Oncogene	NP_002368.1	1531	TRAFKDEMGPRRQKDNC	Homo sapiens
1749	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1578	ERYLGVAFPVQYKLSRPL	Homo sapiens
1750	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1586	QYLNTTEQVRSNGEITC	Homo sapiens
1751	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1588	EGTINEDRGVGGEGEMPSSD	Homo sapiens
1752	159152	G Protein-Coupled Receptor GPR43	NP_005297.1	1616	RGLQLVLRNQGSSLLGRRGKD	Homo sapiens
1753	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1292	KQCLEEAQLENETIGCS	Homo sapiens
1754	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1296	KDLALFDSGESDQCSE	Homo sapiens
1755	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1297	LQKLPPDIRKSDSSP	Homo sapiens
1756	159973	Vasoactive Intestinal Polypeptide Receptor 1	P32241	1298	NPKYRHPSPGSGNGATC	Homo sapiens
1757	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1299	KVFSNFVSKAGNISKNC	Homo sapiens
1758	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1301	CGYSDPEDESKITFYI	Homo sapiens
1759	160040	Vasoactive Intestinal Polypeptide Receptor 2	P41587	1305	KRKWRSRCPTPSASRD	Homo sapiens

1760	160040	Polypeptide Receptor 2 Vasoactive Intestinal Polypeptide Receptor 2	P41587	1306	CGSSFSRNGSEGALQFHR	Homo sapiens
1761	160055	Motilin Receptor (GPR38)	AAC26081.1	132	REPPWPALPPCDERRCS	Homo sapiens
1762	160055	Motilin Receptor (GPR38)	AAC26081.1	134	SPPSGPETAEAAALFSREC	Homo sapiens
1763	160055	Motilin Receptor (GPR38)	AAC26081.1	135	SSRRPLRGPAASGRERGHRQ	Homo sapiens
1764	160055	Motilin Receptor (GPR38)	AAC26081.1	136	RKSRPRGFHRSRD TAG	Homo sapiens
1765	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1595	NPLVTGYLGRGPGLKTV	Homo sapiens
1766	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1596	GRYLGAAFPLGYQAFRRPC	Homo sapiens
1767	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1597	CLEAWDPASAGPARFS	Homo sapiens
1768	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1598	CLRALARSGLTHRRKLR	Homo sapiens
1769	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1599	NASNVASFLYPNLGGSWRK	Homo sapiens
1770	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1617	TVSLPLKAVEALASGA	Homo sapiens
1771	160059	G Protein-coupled Receptor GPR40	NP_005294.1	1618	DHSNTSLGINTPVNGSPVC	Homo sapiens
1772	160189	G Protein-Coupled Receptor GPR54	BAB55446	1926	CSEAFPSRALERAFALY	Homo sapiens
1773	160189	G Protein-Coupled Receptor GPR54	BAB55446	1927	ERAGAVRAKVSRLVAHV	Homo sapiens
1774	160189	G Protein-Coupled Receptor GPR54	BAB55446	1928	RRPGSPDPAAPHAEHLRLGS	Homo sapiens
1775	160189	G Protein-Coupled Receptor GPR54	BAB55446	1929	GAPANASGCGCGANASD	Homo sapiens
1776	160202	Adrenomedullin Receptor (ADMR)	O15218	390	DLFNHTLSECHVELSQST	Homo sapiens
1777	160202	Adrenomedullin Receptor (ADMR)	O15218	391	NVLTAQLRQPGQPKSRRHC	Homo sapiens
1778	160202	Adrenomedullin Receptor (ADMR)	O15218	392	KDQTKAGTCASSSCSTQ	Homo sapiens
1779	160202	Adrenomedullin Receptor (ADMR)	O15218	484	KGDSQPAAPAAAPHPEPSLS	Homo sapiens
1780	160204	G Protein-Coupled Receptor RTA	LR85	1977	CRARRRQRSTKLNHVILA	Homo sapiens

1781	160204	G Protein-Coupled Receptor RTA	LR85	1983	CPGLSEAPELYRRGFLTIEQ	Homo sapiens
1782	160204	G Protein-Coupled Receptor RTA	LR85	1985	RDGAELGEAGGSTPNITVT	Homo sapiens
1783	160204	G Protein-Coupled Receptor RTA	LR85	2173	LAGRDKSQRLWEPLRV	Homo sapiens
1784	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1678	RTTRKWNNGCTHCYLAFNDS	Homo sapiens
1785	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1679	RAKLLREGVWVHANRPKR	Homo sapiens
1786	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1680	RRVMILKENYHPRMLLI	Homo sapiens
1787	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1682	SALARAFGEEEFLLSSC	Homo sapiens
1788	160206	G Protein-Coupled Receptor GPR32	NP_001497.1	1683	RSCSRKMNSSGCLSEE	Homo sapiens
1789	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	151	PGPDRDATCNSRQAALAVSK	Homo sapiens
1790	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	152	SSHAAVSLRLQHRGRRRPGR	Homo sapiens
1791	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	153	DDSELGGAGSSRRRTSSIA	Homo sapiens
1792	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	AAD21055.1	154	DGPPEPGAEEQHLELEPGRR	Homo sapiens
1793	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2220	CPILEQMSRLQSHSNTSIRY	Homo sapiens
1794	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2221	RYIDHAAVLLHGLASLLGLV	Homo sapiens
1795	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2222	CRMRQTVTWVTLALSDL	Homo sapiens
1796	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2223	SASLPFTYFLAVGHSWE	Homo sapiens
1797	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2224	CLVLWALAVLNTVPYFVRD	Homo sapiens
1798	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2225	CYNNVLLNPGPDRDAT	Homo sapiens
1799	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2226	CNSRQAALAVSKFLAFLVP	Homo sapiens
1800	160210	G Protein-Coupled Receptor GPR44 (CRTH2)	NP_004769.1	2228	RGLPFTVLSLAFFNSVANPVL	Homo sapiens

1801	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2229	CSRPEEPRGPARLLGWLLGS	Homo sapiens
1802	160210	Receptor GPR44 (CRTH2) G Protein-Coupled	NP_004769.1	2230	CAASPTQTGPLNIRALSS	Homo sapiens
1803	160212	Receptor GPR44 (CRTH2) G Protein-Coupled	Q9Y2T5	444	KEINDRRARFSPSHEVDSSRE	Homo sapiens
1804	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	445	CVKDQEAQEPKPRKRANS	Homo sapiens
1805	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	446	RWTEWRILNMSSGIVNASER	Homo sapiens
1806	160212	Receptor GPR52 G Protein-Coupled	Q9Y2T5	622	HSCPLGFGHYSWVDVCIFE	Homo sapiens
1807	160217	Receptor GPR52 G Protein-Coupled	AAD22410.1	161	GKVEKYMCFHNMSDDTWSAK	Homo sapiens
1808	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	162	RSIHILLGRRDHTQDWVQQK	Homo sapiens
1809	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	163	CRAKQSISFFLQLSM	Homo sapiens
1810	160217	Receptor GPR55 G Protein-Coupled	AAD22410.1	164	KEFRMNIRAHPRSRVQLVLQ	Homo sapiens
1811	160219	Receptor GPR55 G Protein-Coupled	AAC52028.1	2	AQRPPTDVGQAEATRKAAR	Homo sapiens
1812	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	3	KEFGEASALAVAPRAKAHK	Homo sapiens
1813	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	123	GGFCFRSTRHNFNSMR	Homo sapiens
1814	160219	Receptor GPR35 G Protein-Coupled	AAC52028.1	125	ETIRRALYTSKLSDANC	Homo sapiens
1815	160221	Receptor GPR27 G Protein-Coupled	LR6	335	FPPVLDGGGGDEDAAPCALEQ	Homo sapiens
1816	160221	Receptor GPR27 G Protein-Coupled	LR6	338	RGARRLLVLEEFKTEKRLC	Homo sapiens
1817	160221	Receptor GPR27 G Protein-Coupled	LR6	496	NASEPGSGSGGGEAAALGLK	Homo sapiens
1818	160221	Receptor GPR27 G Protein-Coupled	O54897	515	GLRALACLPAVMLAARRA	Mus musculus
1819	160221	Receptor GPR27 G Protein-Coupled	LR6	1291	RPAGPGRGARRLLVLE	Homo sapiens

1820	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1606	CQRPKPQEDGQPSV	Homo sapiens
1821	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1607	CNMIGDVTTEQYFALRRK	Homo sapiens
1822	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1610	EGRADQSAEAAALVP	Homo sapiens
1823	160222	G Protein-Coupled Receptor GPR72	NP_057624.1	1611	QNFVGRRRYGAEQNPTVK	Homo sapiens
1824	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1600	RIFRSIKQSMGLSAAQKAK	Homo sapiens
1825	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1601	CDRFVAVVALESGRR	Homo sapiens
1826	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1604	ATDHSRQEVSRHKGWKE	Homo sapiens
1827	160223	G Protein-Coupled Receptor G2A	NP_037477.1	1605	KTDVTRLTHSRDTEELQS	Homo sapiens
1828	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	403	ETGEQQSRSKRGTEDEEAK	Homo sapiens
1829	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	404	SPNPKDGGTPDSGGQLR	Homo sapiens
1830	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	405	CQLVTWRVRGPPGRKSE	Homo sapiens
1831	160224	Endothelin Type B Receptor-Like Protein 2 (ETBR-LP-2)	O60883	406	AANGSDNKLKTEVSS	Homo sapiens
1832	160225	Spingolipid Receptor Edg6	CAA04118.1	70	PRDSFRGSRSLFRMRE	Homo sapiens
1833	160225	Spingolipid Receptor Edg6	CAA04118.1	71	ERFATMVRPVAESGATKTSR	Homo sapiens
1834	160225	Spingolipid Receptor Edg6	CAA04118.1	72	RLVQASGQKAPRPAAR	Homo sapiens
1835	160225	Spingolipid Receptor Edg6	CAA04118.1	73	RAVEAHSGASTDSSLRPRD	Homo sapiens
1836	160225	Spingolipid Receptor Edg6	CAA04118.1	1914	IFRLVQASGQKAPRPAAR	Homo sapiens
1837	160225	Spingolipid Receptor Edg6	CAA04118.1	1915	DSSLRPRDSFRGSRSLFRM	Homo sapiens
1838	160225	Spingolipid Receptor Edg6	CAA04118.1	1916	RSLSFRMREPLSSISVR	Homo sapiens
1839	160225	Spingolipid Receptor Edg6	CAA04118.1	1917	GPEDGGGLALRGLSVAASC	Homo sapiens
1840	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1625	ANIGSLCVSFLQPKKE	Homo sapiens
1841	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1626	ETIFNAVMLWEDETVE	Homo sapiens
1842	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1627	CNRKVYQAVRHINKATENKE	Homo sapiens

1843	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1628	CILEHAVNFEDHSNGKR	Homo sapiens
1844	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	1629	CNTSQRRQKRILSVSTKD	Homo sapiens
1845	160228	T-Cell Death-Associated Gene 8 (GPR65)	NP_003599.1	2303	CDAEKSNTFLCYDKYPLEK	Homo sapiens
1846	160300	Encephalopsin	NP_055137.1	2131	CTVDWKSKDANDSSFV	Homo sapiens
1847	160300	Encephalopsin	NP_055137.1	2132	CVEDLQTIQVILKLYEK	Homo sapiens
1848	160300	Encephalopsin	NP_055137.1	2133	CQRPADLPAAAGSEMQRIP	Homo sapiens
1849	160300	Encephalopsin	NP_055137.1	2134	TSDESLSVDDSDKTIG	Homo sapiens
1850	160312	Spingolipid Receptor Edg5	O95136	1018	ERHVAIAKVLYGSDKSC	Homo sapiens
1851	160312	Spingolipid Receptor Edg5	O95136	1019	RSRDLRREVLRLPLQC	Homo sapiens
1852	160312	Spingolipid Receptor Edg5	O95136	1020	QEHVNTKETLETQET	Homo sapiens
1853	160312	Spingolipid Receptor Edg5	O95136	1021	GRRRVGTPGHHLLPLR	Homo sapiens
1854	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1922	MMRKKAKFSJRENPVETKG	Homo sapiens
1855	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1923	MMIEYSNFEKEYDDVTIKM	Homo sapiens
1856	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1924	CEQTEEEKKILKRHLAIFRSE	Homo sapiens
1857	160314	G Protein-Coupled Receptor GPR103	ENSMIPRT221753	1925	KKRVGDGSLVLRTHGKEMSK	Homo sapiens
1858	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	463	DRARERFIMNEKAWDTNSSE	Homo sapiens
1859	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	464	RKNQEQWHVVSRRKKQKLIK	Homo sapiens
1860	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	465	RKSAEKPPQQLVMEELKE	Homo sapiens
1861	160317	Neuropeptide FF 2 Receptor	Q9Y5X5	500	RQSAGDRRLGLSRQTAK	Homo sapiens
1862	160324	G Protein-Coupled Receptor	NP_076403.1	1619	DRFLKIIRPLRNIFLKKP	Homo sapiens
1863	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1620	MILSNKEATPSSVKKC	Homo sapiens
1864	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1622	VYDSYRKSCKDRKNN	Homo sapiens
1865	160324	GPR86/GPR94/P2Y13 G Protein-Coupled Receptor	NP_076403.1	1623	ARVPYTHSQTNINKTDC	Homo sapiens

1866	160324	G Protein-Coupled Receptor	NP_076403.1	1624	CMQGRKRTASSQENHSSQTD	Homo sapiens
1867	160329	GPR86/GPR94/P2Y13 Proteinase-Activated Receptor 4	O76067	1308	CANDSDTLELPDSSRA	Homo sapiens
1868	160329	Proteinase-Activated Receptor 4	O76067	1309	PIRARALRGRRRLALGLC	Homo sapiens
1869	160329	Proteinase-Activated Receptor 4	O76067	1310	LQRQIFRLARSDRVLC	Homo sapiens
1870	160329	Proteinase-Activated Receptor 4	O76067	1311	RDKVRAGLFGQRSPGDT	Homo sapiens
1871	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1213	CELRDQLQLLSQFLKHPQK	Homo sapiens
1872	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1214	TSVRFMGDMVSEEDR	Homo sapiens
1873	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1215	RQEEEGSEIMEYSVLLP	Homo sapiens
1874	160330	G Protein-Coupled-Receptor TM7XN1/GPR56	Q9Y653	1216	RTLFQRTKGRSGEAEKR	Homo sapiens
1875	160387	Glucagon-Like Peptide 2 Receptor	O95838	1312	GSLLFETTRKWAQYKQAC	Homo sapiens
1876	160387	Glucagon-Like Peptide 2 Receptor	O95838	1313	QTENATDIWQDDSEC	Homo sapiens
1877	160387	Glucagon-Like Peptide 2 Receptor	O95838	1315	CPKKLSEGDGAELRK	Homo sapiens
1878	160387	Glucagon-Like Peptide 2 Receptor	O95838	1316	QQDHARWPRGSSLSEC	Homo sapiens
1879	160388	Latrophilin-1	O94910	1121	EPTSTHESEHQSGAWC	Homo sapiens
1880	160388	Latrophilin-1	O94910	1126	CEPREVRRVQWPATQQ	Homo sapiens
1881	160388	Latrophilin-1	O94910	1129	RSQDFPPGDGGPEPPR	Homo sapiens
1882	160388	Latrophilin-1	O94910	1131	CTAEDGATSRPLSSPPGRDS	Homo sapiens
1883	160388	Latrophilin-1	O94910	1706	RESAGKNYNKMHKRETC	Homo sapiens
1884	160388	Latrophilin-1	O94910	1707	RDSPSYDSSPEGPSEALP	Homo sapiens
1885	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1938	QVGPCRSLSGRGRSGGAC	Homo sapiens
1886	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1939	CRDAGTELTGHLVPHDGLR	Homo sapiens

1887	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1940	CKLAQAPGLRAGERSPEESL	Homo sapiens
1888	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1942	RVSDTPEGVNSLDPHGES	Homo sapiens
1889	160390	Cadherin EGF LAG Seven-Pass G-Type Receptor 2 (CELSR2)	NP_001399.1	1943	RSGKSQPSYIPFLREES	Homo sapiens
1890	160397	Latrophilin-2	O95490	1132	CEALDSKGIKWPQTQR	Homo sapiens
1891	160397	Latrophilin-2	O95490	1133	DILDAQQLQELKPSEKD	Homo sapiens
1892	160397	Latrophilin-2	O95490	1136	RTHSLLYQPQKKVKSE	Homo sapiens
1893	160397	Latrophilin-2	O95490	1137	RDSPYPESPDMEDL	Homo sapiens
1894	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1630	CQEQKMLRTLDSYNINRD	Homo sapiens
1895	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1631	CDSYANLNTEDNSLQD	Homo sapiens
1896	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1632	KGTADAANVTSTLENEE	Homo sapiens
1897	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1633	ERLSAKDIMKNGKSNHLK	Homo sapiens
1898	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1634	CNLEKEDLSENSQSSMIK	Homo sapiens
1899	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1635	KRRVTKKSGSVSVSIS	Homo sapiens
1900	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1636	CGTQSAHSDYADEEDS	Homo sapiens
1901	160411	G Protein-Coupled Receptor GPR48	NP_060960.1	1637	DEEDSFVSDSDQVQAC	Homo sapiens
1902	160435	LS160435 Receptor	LR80	1918	ATILKLRTEEAHGREGRR	Homo sapiens
1903	160435	LS160435 Receptor	LR80	1919	CRRVPRDTLDRRESLSAR	Homo sapiens
1904	160435	LS160435 Receptor	LR80	1920	PLSSKRWRRRRYAVAAC	Homo sapiens
1905	160435	LS160435 Receptor	LR80	1921	CRRMGPRSPSVIFMINL	Homo sapiens
1906	160889	Platelet Activating Receptor Homolog (H963)	O14626	1223	MMIPIKDIKEKSNVGC	Homo sapiens
1907	160889	Platelet Activating Receptor Homolog (H963)	O14626	1224	CLVIRQLYRNKDNENYP	Homo sapiens
1908	160889	Platelet Activating Receptor	O14626	1225	CSTRISLFKAKEATLL	Homo sapiens

1909	160889	Homolog (H963) Platelet Activating Receptor Homolog (H963)	O14626	1226	ETFASPKETKAQKEKLR	Homo sapiens
1910	161024	Protein A	NP_062832.1	1690	ESRAVGLPLGLSAGRRC	Homo sapiens
1911	161024	Protein A	NP_062832.1	1691	EDARGKRRSSLDGSES	Homo sapiens
1912	161024	Protein A	NP_062832.1	1692	RTVWEQCVAIMSEEDGD	Homo sapiens
1913	161024	Protein A	NP_062832.1	1693	CKVRFDANGATGPGSRD	Homo sapiens
1914	161024	Protein A	NP_062832.1	1694	RRLSHDETINFSTPRE	Homo sapiens
1915	161024	Protein A	NP_062832.1	1695	GGPEYLGQRHRLDEED	Homo sapiens
1916	161024	Protein A	NP_062832.1	1696	REEITFIDETLPSP	Homo sapiens
1917	161024	Protein A	NP_062832.1	1697	RRPRPLGLSPRRLSLGSPE	Homo sapiens
1918	161214	Galanin Receptor GalR3	AAC35944.1	202	RYGALELCVPAWEDARR	Homo sapiens
1919	161214	Galanin Receptor GalR3	AAC35944.1	203	GAAAAEARRRATGRAGR	Homo sapiens
1920	161214	Galanin Receptor GalR3	AAC35944.1	204	ASRHFRARFRRLWPC	Homo sapiens
1921	161214	Galanin Receptor GalR3	AAC35944.1	205	RARRALRRVRPASSGPP	Homo sapiens
1922	161221	Urotensin-II Receptor (GPR14)	LR15	371	ERYAAVLRLDITVQRPKG	Homo sapiens
1923	161221	Urotensin-II Receptor (GPR14)	LR15	372	RAYRRSQRASFKRARRPGAR	Homo sapiens
1924	161221	Urotensin-II Receptor (GPR14)	LR15	373	RNYRDHLRGRVRGPGSG	Homo sapiens
1925	161221	Urotensin-II Receptor (GPR14)	LR15	374	RARFQRCSGRSLSCSPQPTD	Homo sapiens
1926	161249	G Protein-Coupled Receptor GPR66	LR20	394	ARGHFDPEDLNLDEALRLK	Homo sapiens
1927	161249	G Protein-Coupled Receptor GPR66	LR20	395	IGLRLRRERLLLMQEA	Homo sapiens
1928	161249	G Protein-Coupled Receptor GPR66	LR20	396	RGSAARSRVTCRLQQH	Homo sapiens
1929	161249	G Protein-Coupled Receptor GPR66	LR20	397	ALCLGACCHRLRPRHSS	Homo sapiens
1930	161251	Purinergic Receptor P2Y10	O00398	859	CFLLKPFRRADWKRRYD	Homo sapiens
1931	161251	Purinergic Receptor P2Y10	O00398	860	PFPLRSTDLNNIKSC	Homo sapiens
1932	161251	Purinergic Receptor P2Y10	O00398	862	QLSRHGSSVTRSLMSKE	Homo sapiens
1933	161251	Purinergic Receptor P2Y10	O00398	863	LRQPPMAFQGISERQK	Homo sapiens
1934	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1672	YYDDLDVDVYESAPC	Equine herpesvirus 2

1935	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1674	CDPYYPEMSTNWWIRRAHVAK	Equine herpesvirus 2
1936	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1675	CYVVIIRLLRRPSKK	Equine herpesvirus 2
1937	161293	G Protein-Coupled Receptor Ls161293 (Herpes virus)	NP_042597.1	1676	CKYIPFLSGDGEGKEGPT	Equine herpesvirus 2
1938	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1820	RNLTSAPTASPSAPS	Homo sapiens
1939	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1821	PSWTPSPRRGPAHPFLQPP	Homo sapiens
1940	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1822	RSSHQKRGTTDVDGNSVC	Homo sapiens
1941	177147	Neuromedin K Receptor-Like (NK-4R)	NP_006670.1	1823	KSTTTASFVSSSHMSVEE	Homo sapiens
1942	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1317	TSPFLMAKPGKDEKNNTKC	Homo sapiens
1943	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1318	KKSMKKNLSSHKKAIG	Homo sapiens
1944	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1319	QRTIHLHLHNETKPC	Homo sapiens
1945	177168	Cysteinyl Leukotriene CYSLT1 Receptor	Q9Y271	1320	RKHLSSVTYVPRKKASLPE	Homo sapiens
1946	177191	Histamine H3 Receptor	Q9Y5N1	474	RAVSYRAGQGDTTRAVRK	Homo sapiens
1947	177191	Histamine H3 Receptor	Q9Y5N1	475	QRRTRLRLDGAEEAAGPE	Homo sapiens
1948	177191	Histamine H3 Receptor	Q9Y5N1	476	QSFTQRFRLSRDRKVA	Homo sapiens
1949	177191	Histamine H3 Receptor	Q9Y5N1	477	RYGVGEAAVGAEEAGEATLG	Homo sapiens
1950	177191	Histamine H3 Receptor	Q9Y5N1	1477	SSRGTERPSRLKRGSKPSAS	Homo sapiens
1951	177191	Histamine H3 Receptor	Q9Y5N1	1479	KPSASSASLEKRMKMVS	Homo sapiens
1952	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2052	RTILFSFYFRDTPRANR	Homo sapiens
1953	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2053	RPEMSRGLLAVRGAFV	Homo sapiens
1954	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2059	CAVLSHRRAGPWALLLV	Homo sapiens
1955	177387	G Protein-Coupled Receptor ORF4	NP_064540.1	2733	RVLVSDSLFVICALSL	Homo sapiens

1956	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1014	KRKTNVLSPHITSGSIS	Homo sapiens
1957	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1015	CFSQENPERPSRIPST	Homo sapiens
1958	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1016	SYKDEDMYGTMKKMIC	Homo sapiens
1959	180956	Lysophosphatidic Acid Receptor Edg7	AAF00530.1	1017	VERHMSIMRMVRVHSN	Homo sapiens
1960	189873	G Protein-Coupled Receptor GPR78	LR37	443	CQRMDVTMKALALLAD	Homo sapiens
1961	189873	G Protein-Coupled Receptor GPR78	LR37	528	CSLRLPPEPRRFAAFTAT	Homo sapiens
1962	189873	G Protein-Coupled Receptor GPR78	LR37	533	RGPLPPGICAHSAQGALRR	Homo sapiens
1963	189873	G Protein-Coupled Receptor GPR78	LR37	534	CRQAQARDLGAPWAVGLRSL	Homo sapiens
1964	189874	Neuromedin U Receptor 2	LR28	420	QQKLEDPFQKHLNSTEE	Homo sapiens
1965	189874	Neuromedin U Receptor 2	LR28	422	KDKSLEADEGNANIQRPC	Homo sapiens
1966	189874	Neuromedin U Receptor 2	LR28	423	SQHDPQLPPAQARNIFLTC	Homo sapiens
1967	189874	Neuromedin U Receptor 2	LR28	487	ILHPFRAKLQSTRRRALR	Homo sapiens
1968	189884	G Protein-Coupled Receptor Ls189884	LR27	415	CKKRGTKQNLRNQIRSK	Homo sapiens
1969	189884	G Protein-Coupled Receptor Ls189884	LR27	418	EKPSSPSSGKGKTEKAE	Homo sapiens
1970	189884	G Protein-Coupled Receptor Ls189884	LR27	419	PSVQDNDPIPWEHEDQETGE	Homo sapiens
1971	189884	G Protein-Coupled Receptor Ls189884	LR27	486	KKPPTVSESQETPAGNSEG	Homo sapiens
1972	189884	G Protein-Coupled Receptor Ls189884	LR27	1832	LVMSEEFREGKGVWK	Homo sapiens
1973	189884	G Protein-Coupled Receptor Ls189884	LR27	1833	GLPDKVPSPEPASPIEK	Homo sapiens
1974	189884	G Protein-Coupled Receptor Ls189884	LR27	1834	PDVEQFWHERDTPSVQ	Homo sapiens
1975	189884	G Protein-Coupled Receptor Ls189884	LR27	1835	RHHEGVEMCLVDVPAVAEE	Homo sapiens
1976	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1685	RVPQTGPSTASGVPE	Homo sapiens
1977	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1686	ETPRQRSESLSSRSTMVTS	Homo sapiens

1778	189895	Receptor GPR61 G Protein-Coupled Receptor GPR61	AAK12637.1	1687	SSGAPQITPHRTFGGK	Homo sapiens
1779	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1688	KPAPEELRLPSREGSIEE	Homo sapiens
1780	189895	G Protein-Coupled Receptor GPR61	AAK12637.1	1689	CPSESWVSRPLSPKQE	Homo sapiens
1781	189900	Sphingolipid Receptor Edg8	LR1	312	TGKLRGARYQPGAGLRAD	Homo sapiens
1782	189900	Sphingolipid Receptor Edg8	LR1	316	ALERSLTMARRGPAVSS	Homo sapiens
1783	189900	Sphingolipid Receptor Edg8	LR1	317	DGSFSGSERSSPQRDGLD	Homo sapiens
1784	189900	Sphingolipid Receptor Edg8	LR1	318	CGRDPGSGQASAAEASG	Homo sapiens
1785	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2266	ASRKAEEAIGKLVQGEVS	Homo sapiens
1786	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2270	SCLSYRVGTKPSASLR	Homo sapiens
1787	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2271	RVDYILLHETWRFGAAAC	Homo sapiens
1788	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2272	HQSRALLGLTRGRQGPVSD	Homo sapiens
1789	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2273	CIHTRPWTSNTVFLVSL	Homo sapiens
1790	189901	G Protein-Coupled Receptor Ls189901 (HEOAD54)	ENSP000000071589	2274	RGRQGPVDESSYQPSR	Homo sapiens
1791	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2108	IDRYLIUKYPFREHLLQKKE	Homo sapiens
1792	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2109	TDNGTTCNDFASSGDPN	Homo sapiens
1793	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2110	FLKQRNRQVATALPLE	Homo sapiens
1794	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2111	RNVRIASRLGSKWQYQC	Homo sapiens
1795	189904	Purinergic Receptor P2U2 (GPR91)	AAK29080.1	2112	GDHFRDMLMNQLRHNFKS	Homo sapiens

1996	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1721	CVAFLAVGNPDLIQPSR	Homo sapiens
1997	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1722	NTLRHINALRIHSYPEGIC	Homo sapiens
1998	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1723	QASKLGLMSLQRPFGMSID	Homo sapiens
1999	189920	G Protein-Coupled Receptor GPR63 (PSP24 beta)	AAK12639.2	1724	DMMPKSFKFLPLPGHTIKRR	Homo sapiens
2000	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1715	QNLKDPVQIKIKHTRIQE	Homo sapiens
2001	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1716	KNKSFEGGWNTSGCVAHRD	Homo sapiens
2002	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1717	RNNNEVGKESYGKEKGDE	Homo sapiens
2003	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1718	CGRNGKRSNRTLREEVLR	Homo sapiens
2004	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1719	TSKSKSSSTTYFKRNSHTD	Homo sapiens
2005	189945	G Protein-Coupled Receptor DJ287g14.2	Q9Y3K0	1720	DKSLSLAHADGDQTS	Homo sapiens
2006	190026	G Protein-Coupled Receptor JEG18	LR24	407	LFPLRTSDDTIPGNRTKC	Homo sapiens
2007	190026	G Protein-Coupled Receptor JEG18	LR24	408	QDKYPMAQDLGEKQKALK	Homo sapiens
2008	190026	G Protein-Coupled Receptor JEG18	LR24	409	SFPLDFLVKSNEIKSC	Homo sapiens
2009	190026	G Protein-Coupled Receptor JEG18	LR24	410	RRRLSRQDLHDSIQLHAK	Homo sapiens
2010	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1725	KGEAKLDSRAKDVTLTIQE	Homo sapiens
2011	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1727	DHKEQPVTENAERQLVVKD	Homo sapiens
2012	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1728	EDFEEQTLTILFDGERERK	Homo sapiens
2013	190031	G Protein-Coupled Receptor VLGR1	AAD55586.1	1729	EGKEGDYRIPERLLDVQD	Homo sapiens

2014	190168	Receptor VLGR1	AAF27278.1	324	SEAYADGIEGYDILVACSSS	Homo sapiens
2015	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	326	NNLRNQNNQVKKDKKAAK	Homo sapiens
2016	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	379	DPFLNFSTPWVLFDAIT	Homo sapiens
2017	190168	G Protein-Coupled Receptor GPR58	AAF27278.1	380	GKIFSSCFHNTILCMQKE	Homo sapiens
2018	190170	G Protein-Coupled Receptor GPR58	AAF27279.1	327	CPKFVNKILSSHQPLFS	Homo sapiens
2019	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	328	KQHARVISHVPENTKGAVKK	Homo sapiens
2020	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	329	ENTKGAVKKHLSKKDKRKA	Homo sapiens
2021	190170	G Protein-Coupled Receptor GPR57	AAF27279.1	330	CKFHTSFDMMRLTISI	Homo sapiens
2022	190188	G Protein-Coupled Receptor GPR57	LR36	439	ENHDQDDELQLEMEDSKP	Homo sapiens
2023	190188	Receptor LGR6	LR36	440	NPHFRDDLRLRPRAGDS	Homo sapiens
2024	190188	G Protein-Coupled Receptor LGR6	LR36	442	EDLHLDDEESSKRPLGLLAR	Homo sapiens
2025	190188	G Protein-Coupled Receptor LGR6	LR36	621	DSGPLAYAAAGELEKSSC	Homo sapiens
2026	190414	Receptor LGR6	CAC33098.1	1836	CAARRQAHLLYNVVRHSLE	Homo sapiens
2027	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1837	DGSLKAKEGSTGTSESSV	Homo sapiens
2028	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1838	CSIDLGEDGMEFGEDDIN	Homo sapiens
2029	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1839	SEDDVEAVNIPESLPPS	Homo sapiens
2030	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1840	MHKTIKKEIQDMLKKFFC	Homo sapiens
2031	190414	G Protein-coupled Receptor GPR101	CAC33098.1	1841	KEDSHPDLPGTGGTEG	Homo sapiens
2032	190418	Inflammation-Related G Protein-Coupled Receptor	LR8	343	RQVKRAAQALDQYKLRQAS	Homo sapiens

2033	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	344	RTDEAMPGRFQELDSRLASG	Homo sapiens
2034	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	345	DSSEVGDAQINSKRAKQMAEK	Homo sapiens
2035	190418	EX33 Inflammation-Related G Protein-Coupled Receptor	LR8	346	KAQPIKGARRAPDSSEFGK	Homo sapiens
2036	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2716	RRKSNFRLRGYSTGKT	Homo sapiens
2037	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2717	RRQKSSVNYLLALAAAD	Homo sapiens
2038	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2719	CFLTSPYYWWPNWT	Homo sapiens
2039	190419	G Protein-Coupled Receptor Ls190419	CAC33085.1	2725	CSIFFILNSIIVYKLR	Homo sapiens
2040	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2754	GRUYSLLSFISPH	Homo sapiens
2041	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2755	FFLFLWIHVDRE	Homo sapiens
2042	190421	MrgX1 G Protein-Coupled Receptor	AAK91804.1	2756	MDPTISTLDTLTP	Homo sapiens
2043	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	471	ASSIMLLDSGSEQNGSVTSC	Homo sapiens
2044	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	472	RVLLKVEVPESGLRVSHRK	Homo sapiens
2045	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	473	KDRLKSALRKGHPPQAKATKC	Homo sapiens
2046	190427	Cysteinyl Leukotriene CYSLT2 Receptor	LR49	512	MEPNGTFSNNNSRNC	Homo sapiens
2047	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2253	CTIENFKREFFPIVYLIF	Homo sapiens
2048	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2254	GVLGNGLSIWFLQPYK	Homo sapiens
2049	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2255	ADYYLRGSNWIFGDLAC	Homo sapiens
2050	190427	Cysteinyl Leukotriene CYSLT2 Receptor	NP_065110.1	2256	FRLLHVTISRSAWILC	Homo sapiens

2051	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2257	CGIIWILIMASSIMLLDSGS	Homo sapiens
2052	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2258	CLELNLYKIAKLQTMNYIAL	Homo sapiens
2053	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2260	VSHRKALTIITLIIFLC	Homo sapiens
2054	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2261	CFLPYHTLRTVHLTTWKVGL	Homo sapiens
2055	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2262	CKDRUHKALVITLALA	Homo sapiens
2056	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2263	YFAGENFKDRLKSALRKG	Homo sapiens
2057	190427	Receptor Cysteinyl Leukotriene Receptor	CYSLT2 NP_065110.1	2264	HPQKAKTKCVFPVSVWLKE	Homo sapiens
2058	190437	G Protein-Coupled Receptor C5L2	LR31	429	DSVSYEYGDYSDLSDRPVDC	Homo sapiens
2059	190437	G Protein-Coupled Receptor C5L2	LR31	430	RESQGGQDESVDKSTSHD	Homo sapiens
2060	190437	G Protein-Coupled Receptor C5L2	LR31	431	PSAIYRRLHGEHFARLQC	Homo sapiens
2061	190437	G Protein-Coupled Receptor C5L2	LR31	432	CHWALRESQGQDESVDKKS	Homo sapiens
2062	190437	G Protein-Coupled Receptor C5L2	NP_060955.1	2818	MGNDSVSYEYGDYSDLSDRPVDC	Homo sapiens
2063	190438	G Protein-Coupled Receptor Ls190438	ENSP00000080322	2585	TERLKIRWHTSDNQVRPQAC	Homo sapiens
2064	190484	G Protein-Coupled Receptor Ls190484	LR33	434	EADLGATGHRPRTELDDED	Homo sapiens
2065	190484	G Protein-Coupled Receptor Ls190484	LR33	435	RTCHRQQQPAACRGFARVAR	Homo sapiens
2066	190484	G Protein-Coupled Receptor Ls190484	LR33	436	EERPGSFTPEQTQLDSEG	Homo sapiens
2067	190484	G Protein-Coupled Receptor Ls190484	LR33	437	RSDPTAQPLNPTAQPSQSD	Homo sapiens
2068	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1730	RNVTDIDILALERLLQ	Homo sapiens
2069	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1731	KKKRMAMARRTMFQKGE	Homo sapiens

2070	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1732	KSVTTSASGSENILTIQQE	Homo sapiens
2071	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1733	EVDALEELSRQLFLETAD	Homo sapiens
2072	190595	G Protein-Coupled Receptor SH120	NP_057418.1	1734	DRVGKTDVPVTRGIEIT	Homo sapiens
2073	190599	G Protein-Coupled Receptor GPRC5B	O75205	411	VRLPFIKEKEKSPVGLH	Homo sapiens
2074	190599	G Protein-Coupled Receptor GPRC5B	O75205	412	DEHNAALRTAGFPNGSLGKR	Homo sapiens
2075	190599	G Protein-Coupled Receptor GPRC5B	O75205	413	GKRPSGSLGKRPSAPFRSNV	Homo sapiens
2076	190599	G Protein-Coupled Receptor GPRC5B	O75205	414	SQPRMRETAFEEDVQLPR	Homo sapiens
2077	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	542	GDPAIYQSLKAQINAYSRHC	Homo sapiens
2078	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	543	PFSHSSVTVRSKKIFLSKL	Homo sapiens
2079	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	619	GKLLNLIILGMRRKNKTCQN	Homo sapiens
2080	190602	G Protein-Coupled Receptor GPCR150	CAB55314.1	620	EEVTLVQAIRITSYME	Homo sapiens
2081	190623	Melanopsin	AAF24978.1	2137	CKNGESLWQIRQLQSE	Homo sapiens
2082	190623	Melanopsin	AAF24978.1	2138	RHSRPVPSYRSTHRST	Homo sapiens
2083	190623	Melanopsin	AAF24978.1	2139	TSHTSNLSWISIRRRQE	Homo sapiens
2084	190623	Melanopsin	AAF24978.1	2140	DLEAKAPRPQGHEAET	Homo sapiens
2085	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1735	KLQRRPVAVDVLLNLITASD	Homo sapiens
2086	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1736	KTRPRLGQAGLVSVAC	Homo sapiens
2087	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1737	EFSGDISHSQGTNGTC	Homo sapiens
2088	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1738	SRLVWILGRGGSHRRQRR	Homo sapiens
2089	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1739	GQWQQESSMELKEQKGG	Homo sapiens
2090	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	1740	EEQRADRP AERKTSEHSQGC	Homo sapiens
2091	190627	G Protein-Coupled Receptor GPR41 & GPR42	NP_005295.1	2569	MDTGPDSYFSFGNHWVFVS	Homo sapiens

2092	190701	Receptor GPR41 & GPR42 C-C Chemokine Receptor 11	AAF61299.1	1441	VAIVAYYKQRTKTDV	Homo sapiens
2093	190701	C-C Chemokine Receptor 11	AAF61299.1	1442	VAVTKVPSQSGVGKPCWII	Homo sapiens
2094	190701	C-C Chemokine Receptor 11	AAF61299.1	1443	CNMSKRMIDIAIQVTESI	Homo sapiens
2095	190701	C-C Chemokine Receptor 11	AAF61299.1	1444	RQSVVEFPFDSEGTEP	Homo sapiens
2096	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1741	GHPPGSGGAESADTEARVR	Homo sapiens
2097	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1742	HSVASALKSHRTRGHGRGDC	Homo sapiens
2098	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1743	KGGAAVAGGRPTGASARR	Homo sapiens
2099	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1744	CLVRREFRKALKSLWR	Homo sapiens
2100	190705	G Protein-Coupled Receptor SALPR	NP_057652.1	1745	RPFTATKPEHEDQGLQ	Homo sapiens
2101	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	339	AFPPVLDVGTYSFIREDDQC	Homo sapiens
2102	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	340	HDRRKMKPVQFVAASQIN	Homo sapiens
2103	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	341	RRRLVLDEFKMEKRISR	Homo sapiens
2104	190711	G Protein-Coupled Receptor GPR85 (SREB2)	CAB82307.1	342	LRRCFSTLLYCRKSRLPRE	Homo sapiens
2105	190725	G Protein-Coupled Receptor GPR26	LR26	554	PLTLAGWARRQPAQDRLC	Homo sapiens
2106	190725	G Protein-Coupled Receptor GPR26	LR26	555	CSRRPDERLRFVFTGA	Homo sapiens
2107	190725	G Protein-Coupled Receptor GPR26	LR26	557	CKEILNRLHRRSHSSG	Homo sapiens
2108	190725	G Protein-Coupled Receptor GPR26	LR26	567	CLEEQKRRRQRAIKKIST	Homo sapiens
2109	190741	Sreb3	LR9	516	EPEVSGALSPPSASAYVK	Homo sapiens
2110	190741	Sreb3	LR9	519	NGHAASRRLLGMDEVKGEK	Homo sapiens
2111	190741	Sreb3	LR9	526	KKCLRTHAPCWGTGGAPAPR	Homo sapiens
2112	190741	Sreb3	LR9	527	VLMMAATHAVYVKLLFEYR	Homo sapiens

2113	190742	G Protein-Coupled Receptor H7TBA62	LR23	550	RRAPGPPSDTFVFNALAD	Homo sapiens
2114	190742	G Protein-Coupled Receptor H7TBA62	LR23	551	QRRQRRRQDSRVVARSVR	Homo sapiens
2115	190742	G Protein-Coupled Receptor H7TBA62	LR23	552	RREPRQALAGTFRDLRSR	Homo sapiens
2116	190742	G Protein-Coupled Receptor H7TBA62	LR23	553	KQVGRRVWASNPRESRPS	Homo sapiens
2117	190743	G Protein-Coupled Receptor GPRC5D	LR32	568	KDCIESTGDYFLLCDAEGP	Homo sapiens
2118	190743	G Protein-Coupled Receptor GPRC5D	LR32	569	VENQELSRGTFLGDSGSR	Homo sapiens
2119	190743	G Protein-Coupled Receptor GPRC5D	LR32	570	GDSGSEVLLQEKQKNHA	Homo sapiens
2120	190743	G Protein-Coupled Receptor GPRC5D	LR32	571	SMLLRGNPQFQRQPQWDDP	Homo sapiens
2121	190744	G Protein-Coupled Receptor GPRC5C	LR34	529	KVPSEELTSSSHGPPPTAR	Homo sapiens
2122	190744	G Protein-Coupled Receptor GPRC5C	LR34	532	RSGEGGPQGNSSAGWAV	Homo sapiens
2123	190744	G Protein-Coupled Receptor GPRC5C	LR34	535	QDTKRSLLGTQVFFLLGT	Homo sapiens
2124	190744	G Protein-Coupled Receptor GPRC5C	LR34	538	KEQKGQSMFVENKAFSMDE	Homo sapiens
2125	190745	G Protein-Coupled Receptor LGR7	LR40	560	TATEIRNQVKKEMILAKR	Homo sapiens
2126	190745	G Protein-Coupled Receptor LGR7	LR40	561	NYRQRKSMDSKGQKTYAPS	Homo sapiens
2127	190745	G Protein-Coupled Receptor LGR7	LR40	565	SCSNLTVLMRKKNKINHLN	Homo sapiens
2128	190745	G Protein-Coupled Receptor LGR7	LR40	566	DELDLGSNKIENLPPLFKD	Homo sapiens
2129	190748	GPCR Ls190748	LR47	546	QLSSPSRPTQKTLCSLR	Homo sapiens
2130	190748	GPCR Ls190748	LR47	547	DMLKIASMHSQIRKMEHAG	Homo sapiens
2131	190748	GPCR Ls190748	LR47	548	AGGYRSPRTSDFKALRTVS	Homo sapiens
2132	190748	GPCR Ls190748	LR47	549	RESSCHIVTSSSEFDG	Homo sapiens
2133	190748	GPCR Ls190748	LR47	1481	GVKKVLTSLFLLSARNC	Homo sapiens
2134	190748	GPCR Ls190748	LR47	1482	NSLNPLIYAYWQKEVRLQ	Homo sapiens
2135	190749	G Protein-Coupled	LR48	467	RRAALRPPRPARGSLRSD	Homo sapiens

2136	190749	Receptor GPR62	LR48	468	RPVRLALGRSLRRALPGPVR	Homo sapiens
2137	190749	G Protein-Coupled Receptor GPR62	LR48	510	DSRLSILPLRPRLPGGK	Homo sapiens
2138	190749	G Protein-Coupled Receptor GPR62	LR48	511	RPPEGPAVGPSEAPEQTPE	Homo sapiens
2139	190749	G Protein-Coupled Receptor GPR62	LR48	2702	VVARRAALRPPRPA	Homo sapiens
2140	190749	G Protein-Coupled Receptor GPR62	LR48	2703	PSEAPEQTPELAGGR	Homo sapiens
2141	190749	G Protein-Coupled Receptor GPR62	LR48	2704	GPSEAPEQTPELAG	Homo sapiens
2142	190774	Histamine H4 Receptor	NP_067637.2	2235	PDNTNINLSLSTRVTLAFF	Homo sapiens
2143	190774	Histamine H4 Receptor	NP_067637.2	2237	VVDKNLHRSSYFFLN	Homo sapiens
2144	190774	Histamine H4 Receptor	NP_067637.2	2240	LYPHITFEWDFGKEIC	Homo sapiens
2145	190774	Histamine H4 Receptor	NP_067637.2	2242	TQHTGVLIKVTLMVAV	Homo sapiens
2146	190774	Histamine H4 Receptor	NP_067637.2	2243	VNGPMLVSESWKDEGSEC	Homo sapiens
2147	190774	Histamine H4 Receptor	NP_067637.2	2244	CEPGFSEWYLAITSFL	Homo sapiens
2148	190774	Histamine H4 Receptor	NP_067637.2	2245	AYFNINIWWSLWKRDHLSRC	Homo sapiens
2149	190774	Histamine H4 Receptor	NP_067637.2	2246	CGHSFRGRSSRRSL	Homo sapiens
2150	190774	Histamine H4 Receptor	NP_067637.2	2247	IASKMGFSQSDSVALHQRE	Homo sapiens
2151	190774	Histamine H4 Receptor	NP_067637.2	2249	IVLSFYSSATGPKSVWYRIA	Homo sapiens
2152	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2085	IIRVTVPGKGTIVAC	Homo sapiens
2153	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2086	SPWTNDPKERINVAVA	Homo sapiens
2154	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2087	RIRELLQGMVYKEIGIAVD	Homo sapiens
2155	190823	Formyl Peptide Receptor 1 (FPR1)	NP_002020.1	2088	TQTSDTATNSTLPSAE	Homo sapiens
2156	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	481	TEVPDSAQTSNTHITSAS	Homo sapiens
2157	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	522	GDTAVERLNVFITMAKV	Homo sapiens
2158	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	523	MSLAKRVMITGLWIFI	Homo sapiens
2159	190824	Formyl Peptide Receptor-like 2 (FPRL2)	LR14	525	LHFIIGFTVPMISITV	Homo sapiens

2160	190948	like 2 (FPRL2)	NP_038475.1	1658	DELLEAPGDLETLPLRLQQHC	Homo sapiens
2161	190948	EMR2 Hormone Receptor	NP_038475.1	1659	CVASHLLDGLIEDVLRGLSKN	Homo sapiens
2162	190948	EMR2 Hormone Receptor	NP_038475.1	1660	KSGDPGPSVVGLVSPG	Homo sapiens
2163	190948	EMR2 Hormone Receptor	NP_038475.1	1661	SKGIRKLKTESEMHLSST	Homo sapiens
2164	190948	EMR2 Hormone Receptor	NP_038475.1	1662	ELSLEVQKQVDRSVTLRQNG	Homo sapiens
2165	190948	EMR2 Hormone Receptor	NP_038475.1	1663	EPEKQMLLHETHQGLLDGGS	Homo sapiens
2166	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1492	KRMQKRSVTALMVNLALAD	Homo sapiens
2167	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1493	RPFVSGKLRTKAMARR	Homo sapiens
2168	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1494	ASYSDIGRRILQARRFR	Homo sapiens
2169	190955	Leukotriene B4 Receptor BLT1	NP_000743.1	1495	LEGTGEASSTRRGGS	Homo sapiens
2170	191039	Trace Amine Receptor 1 (TA1)	LR122	2039	RKALKMMLFGKIFQKDSRC	Homo sapiens
2171	191039	Trace Amine Receptor 1 (TA1)	LR122	2040	QIGLEMKNGISQSKERKAV	Homo sapiens
2172	191039	Trace Amine Receptor 1 (TA1)	LR122	2041	RIYUAKEQARLUSDANGK	Homo sapiens
2173	191039	Trace Amine Receptor 1 (TA1)	LR122	2042	ELNFKGAEIYKHHVHC	Homo sapiens
2174	191039	Trace Amine Receptor 1 (TA1)	LR122	2043	CVKNNWSNDVRASLYS	Homo sapiens
2175	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1569	SAEPPADWDGAGGSYRLRG	Homo sapiens
2176	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1571	GIVRRVRVSVKRVSVLN	Homo sapiens
2177	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1572	RNEEFRRSVRSLPGVGDA	Homo sapiens
2178	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1573	CEEEESWAGRRIPVSLLYSG	Homo sapiens
2179	191132	G Protein-Coupled Receptor 88 (GPR88)	NP_071332.1	1651	CYLGIVRRVRVSVKRVVS	Homo sapiens
2180	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1544	KELYRSVYRTRGVGKVPKPR	Homo sapiens
2181	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1545	ILTNRQPRDKNVKKCS	Homo sapiens

2182	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1546	CPNSATSLSQDNRKKEQDGG	Homo sapiens
2183	191168	P2Y12 Platelet ADP Receptor	NP_073625.1	1570	TTRPFKTSNPKNLLGAK	Homo sapiens
2184	191193	Trace Amine Receptor 3 (TA3)	LR88	1969	ANEEGIEELVVA	Homo sapiens
2185	191193	Trace Amine Receptor 3 (TA3)	LR88	2316	RKIESTASQAQSS	Homo sapiens
2186	191193	Trace Amine Receptor 3 (TA3)	LR88	2571	LVDAVIDAYMNF	Homo sapiens
2187	191193	Trace Amine Receptor 3 (TA3)	LR88	2573	RTDSSITNLFSEEVET	Homo sapiens
2188	191196	G Protein-Coupled Receptor GPR80	IP_13092	1864	NASDFPDYAAAFGNCTDE	Homo sapiens
2189	191196	G Protein-Coupled Receptor GPR80	IP_13092	1865	TFUTSTNRTNRSACLD	Homo sapiens
2190	191196	G Protein-Coupled Receptor GPR80	IP_13092	1866	TLTHGLQTDSCCLKQKARR	Homo sapiens
2191	191196	G Protein-Coupled Receptor GPR80	IP_13092	1867	RLLSISCSIENQIHEA	Homo sapiens
2192	191196	G Protein-Coupled Receptor GPR80	IP_13092	1868	QQAVCSTVRCKVSGNLE	Homo sapiens
2193	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2749	QDIAEVDHSEGCF	Homo sapiens
2194	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2750	RKQWRLQQLKLA	Homo sapiens
2195	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2751	CSISINFPSFFTVMTC	Homo sapiens
2196	191218	MrgX2 G Protein-Coupled Receptor	AAK91805.1	2752	QWFLULWVKDSV	Homo sapiens
2197	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2575	AFLSDNITIEVRINRTLKK	Homo sapiens
2198	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2576	QETKNEFRNLKQISKC	Homo sapiens
2199	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2577	CNNKTHWAPVRSTM	Homo sapiens
2200	191222	G Protein-Coupled Receptor Ls191222	ENSP00000199719	2581	TKMAEYDLQNDVFIIPD	Homo sapiens
2201	193511	EGF-Like Module-Containing	AAK15076.1	1665	CQDITSSKTEGRKELQKIV	Homo sapiens

2202	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1666	RDVESKVLETALKDPEQK	Homo sapiens
2203	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1667	KIQNDSVAIETQAITDNC	Homo sapiens
2204	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1668	CSEERKTFNLNVQMNMSMDIR	Homo sapiens
2205	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1669	EEMDKKDQVYVNSQVVSAA	Homo sapiens
2206	193511	Mucin-Like Receptor EMR3 EGF-Like Module-Containing	AAK15076.1	1670	SKSVTLTFQHVVKMTPSTK	Homo sapiens
2207	193516	Mucin-Like Receptor EMR3 G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2142	CLLLPTAVIVFSVVKIIAK	Homo sapiens
2208	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2144	RPDSIPIQLSVVPTLLA	Homo sapiens
2209	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2145	CQTGGILKATKKKSLEG	Homo sapiens
2210	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2146	RLHTVTVTRKSSAVLE	Homo sapiens
2211	193516	G Protein-Coupled Receptor dJ402H5.1	CAC21687.1	2620	PTAVIVFSVVKIIAKV	Homo sapiens
2212	193524	Receptor dJ402H5.1 Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1947	KLAQRLREVTGHTDHYFSQD	Homo sapiens
2213	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	1948	CALQTWGSERRRLGLDTSKD	Homo sapiens
2214	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2734	RGRRQSARNSRGPPEQPNE	Homo sapiens
2215	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2735	RNSRGPPEQPNEELG	Homo sapiens
2216	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2736	AQVREDVRPHTVVLRL	Homo sapiens
2217	193524	Cadherin EGF LAG Seven- Pass G-Type Receptor 3 (CELSR3)	NP_001398.1	2742	QLDQVPSRHPSPRE	Homo sapiens